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***** Welcome to STN International *****

NEWS	1		Web Page for STN Seminar Schedule - N. America
NEWS	2	NOV 21	CAS patent coverage to include exemplified prophetic substances identified in English-, French-, German-, and Japanese-language basic patents from 2004-present
NEWS	3	NOV 26	MARPAT enhanced with FSORT command
NEWS	4	NOV 26	CHEMSAFE now available on STN Easy
NEWS	5	NOV 26	Two new SET commands increase convenience of STN searching
NEWS	6	DEC 01	ChemPort single article sales feature unavailable
NEWS	7	DEC 12	GBFULL now offers single source for full-text coverage of complete UK patent families
NEWS	8	DEC 17	Fifty-one pharmaceutical ingredients added to PS
NEWS	9	JAN 06	The retention policy for unread STNmail messages will change in 2009 for STN-Columbus and STN-Tokyo
NEWS	10	JAN 07	WPIDS, WPINDEX, and WPIX enhanced Japanese Patent Classification Data
NEWS	11	FEB 02	Simultaneous left and right truncation (SLART) added for CERAB, COMPUAB, ELCOM, and SOLIDSTATE
NEWS	12	FEB 02	GENBANK enhanced with SET PLURALS and SET SPELLING
NEWS	13	FEB 06	Patent sequence location (PSL) data added to USGENE
NEWS	14	FEB 10	COMPENDEX reloaded and enhanced
NEWS	15	FEB 11	WTEXTILES reloaded and enhanced
NEWS	16	FEB 19	New patent-examiner citations in 300,000 CA/CAPLUS patent records provide insights into related prior art
NEWS	17	FEB 19	Increase the precision of your patent queries -- use terms from the IPC Thesaurus, Version 2009.01
NEWS	18	FEB 23	Several formats for image display and print options discontinued in USPATFULL and USPAT2
NEWS	19	FEB 23	MEDLINE now offers more precise author group fields and 2009 MeSH terms
NEWS	20	FEB 23	TOXCENTER updates mirror those of MEDLINE - more precise author group fields and 2009 MeSH terms
NEWS	21	FEB 23	Three million new patent records blast AEROSPACE into STN patent clusters
NEWS	22	FEB 25	USGENE enhanced with patent family and legal status display data from INPADOCDB
NEWS	23	MAR 06	INPADOCDB and INPAFAMDB enhanced with new display formats
NEWS	24	MAR 11	EPFULL backfile enhanced with additional full-text applications and grants
NEWS	25	MAR 11	ESBIOBASE reloaded and enhanced
NEWS EXPRESS	JUNE 27 08		CURRENT WINDOWS VERSION IS V8.3, AND CURRENT DISCOVER FILE IS DATED 23 JUNE 2008.

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 NEWS IPC8 For general information regarding STN implementation of IPC 8

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* * * * * STN Columbus * * * * *

FILE 'HOME' ENTERED AT 18:50:11 ON 15 MAR 2009

=> file hcaplus, inspec, scisearch, wpindex, uspatall, epfull, gbfull	
COST IN U.S. DOLLARS	SINCE FILE TOTAL
	ENTRY SESSION
FULL ESTIMATED COST	0.22 0.22

FILE 'HCAPLUS' ENTERED AT 18:50:54 ON 15 MAR 2009
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 CA INDEXING COPYRIGHT (C) 2009 AMERICAN CHEMICAL SOCIETY (ACS)

FILE 'USPATOLD' ENTERED AT 18:50:54 ON 15 MAR 2009
 CA INDEXING COPYRIGHT (C) 2009 AMERICAN CHEMICAL SOCIETY (ACS)

FILE 'USPAT2' ENTERED AT 18:50:54 ON 15 MAR 2009
 CA INDEXING COPYRIGHT (C) 2009 AMERICAN CHEMICAL SOCIETY (ACS)

FILE 'EPFULL' ENTERED AT 18:50:54 ON 15 MAR 2009
 COPYRIGHT (C) 2009 European Patent Office / FIZ Karlsruhe / LexisNexis Univentio

FILE 'GBFULL' ENTERED AT 18:50:54 ON 15 MAR 2009
 COPYRIGHT (C) 2009 Univentio

```
=> e boger snjezana/au,in
'IN' IS NOT A VALID EXPAND FIELD CODE FOR FILE 'SCISEARCH'
E1      1      BOGER SEIDL S/AU
E2      1      BOGER SEIDL S/IN
E3      37 --> BOGER SNJEZANA/AU
E4      35      BOGER SNJEZANA/IN
E5      2      BOGER SNJEZANA BOGER/AU
E6      2      BOGER SNJEZANA BOGER/IN
E7      3      BOGER SNJEZANA DR/AU
E8      3      BOGER SNJEZANA DR/IN
E9      1      BOGER SR DAVID H/AU
```

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E10      1      BOGER SR DAVID H/IN
E11      2      BOGER STEPHANIE/AU
E12      3      BOGER STEVEN D/AU

```

The indicated field code is not available for EXPAND in this file. To see a list of valid EXPAND field codes, enter HELP SFIELDS at an arrow prompt (=>).

```
=> s e3-e8
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'IN' IS NOT A VALID FIELD CODE
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L1      42      ("BOGER SNJEZANA"/AU OR "BOGER SNJEZANA"/IN OR "BOGER SNJEZANA
BOGER"/AU OR "BOGER SNJEZANA BOGER"/IN OR "BOGER SNJEZANA DR"/AU
OR "BOGER SNJEZANA DR"/IN)

```

```
=> e englert peter/au,in
```

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'IN' IS NOT A VALID EXPAND FIELD CODE FOR FILE 'SCISEARCH'
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```

E1      1      ENGLERT PAUL JOSEPH/AU
E2      1      ENGLERT PAUL JOSEPH/IN
E3      56 --> ENGLERT PETER/AU
E4      54      ENGLERT PETER/IN
E5      3      ENGLERT PETER A J/AU
E6      3      ENGLERT PETER DIPL ING/AU
E7      3      ENGLERT PETER DIPL ING/IN
E8      6      ENGLERT PETER DIPL ING FH/AU
E9      6      ENGLERT PETER DIPL ING FH/IN
E10     60      ENGLERT R/AU
E11     24      ENGLERT R/IN
E12     1      ENGLERT R A/AU

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The indicated field code is not available for EXPAND in this file. To see a list of valid EXPAND field codes, enter HELP SFIELDS at an arrow prompt (=>).

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=> s e1-e9
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'IN' IS NOT A VALID FIELD CODE
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L2      68      ("ENGLERT PAUL JOSEPH"/AU OR "ENGLERT PAUL JOSEPH"/IN OR "ENGLER
T PETER"/AU OR "ENGLERT PETER"/IN OR "ENGLERT PETER A J"/AU OR
"ENGLERT PETER DIPL ING"/AU OR "ENGLERT PETER DIPL ING"/IN OR
"ENGLERT PETER DIPL ING FH"/AU OR "ENGLERT PETER DIPL ING FH"/IN
)

```

```
=> e pfitzer matthias/au,in
```

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'IN' IS NOT A VALID EXPAND FIELD CODE FOR FILE 'SCISEARCH'
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```

E1      2      PFITZER MATHIAS/AU
E2      2      PFITZER MATHIAS/IN
E3      26 --> PFITZER MATTHIAS/AU
E4      26      PFITZER MATTHIAS/IN
E5      1      PFITZER MATTHIAS DIPL ING/AU
E6      1      PFITZER MATTHIAS DIPL ING/IN
E7      2      PFITZER MATTHIAS DIPL ING FH/AU
E8      2      PFITZER MATTHIAS DIPL ING FH/IN
E9      4      PFITZER OTTO/AU
E10     4      PFITZER OTTO/IN
E11     94      PFITZER P/AU
E12     3      PFITZER PETER/AU

```

The indicated field code is not available for EXPAND in this file. To see a list of valid EXPAND field codes, enter HELP SFIELDS at an arrow prompt (=>).

```
=> s e1-e8
```

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'IN' IS NOT A VALID FIELD CODE
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```

L3      31      ("PFITZER MATHIAS"/AU OR "PFITZER MATHIAS"/IN OR "PFITZER MATTHI
AS"/AU OR "PFITZER MATTHIAS"/IN OR "PFITZER MATTHIAS DIPL ING"/A
U OR "PFITZER MATTHIAS DIPL ING"/IN OR "PFITZER MATTHIAS DIPL

```

ING FH"/AU OR "PFITZER MATTHIAS DIPL ING FH"/IN)

```
=> e sedlmeir sabine/au,in
'IN' IS NOT A VALID EXPAND FIELD CODE FOR FILE 'SCISEARCH'
E1      1      SEDLMEIR R SABINE/AU
E2      1      SEDLMEIR R SABINE/IN
E3      12 --> SEDLMEIR SABINE/AU
E4      12      SEDLMEIR SABINE/IN
E5      9      SEDLMEIR W/AU
E6      2      SEDLMEIR W/IN
E7      1      SEDLMEIR WERNER/AU
E8      1      SEDLMELER/AU
E9      1      SEDLMELER/IN
E10     1      SEDLMELER WALTER/AU
E11     1      SEDLMELER WALTER/IN
E12     1      SEDLMEYE A/AU
```

The indicated field code is not available for EXPAND in this file. To see a list of valid EXPAND field codes, enter HELP SFIELDS at an arrow prompt (=>).

```
=> s e1-e4
'IN' IS NOT A VALID FIELD CODE
L4      13 ("SEDLMEIR R SABINE"/AU OR "SEDLMEIR R SABINE"/IN OR "SEDLMEIR
        SABINE"/AU OR "SEDLMEIR SABINE"/IN)
```

```
=> e trautwein ingo/au,in
'IN' IS NOT A VALID EXPAND FIELD CODE FOR FILE 'SCISEARCH'
E1      42      TRAUTWEIN HERBERT/AU
E2      30      TRAUTWEIN HERBERT/IN
E3      36 --> TRAUTWEIN INGO/AU
E4      36      TRAUTWEIN INGO/IN
E5      1      TRAUTWEIN J/AU
E6      1      TRAUTWEIN J W/AU
E7      1      TRAUTWEIN J W/IN
E8      2      TRAUTWEIN JACOB O/AU
E9      2      TRAUTWEIN JACOB O/IN
E10     2      TRAUTWEIN JAMES A/AU
E11     2      TRAUTWEIN JAMES A/IN
E12     1      TRAUTWEIN JAN PETER/AU
```

The indicated field code is not available for EXPAND in this file. To see a list of valid EXPAND field codes, enter HELP SFIELDS at an arrow prompt (=>).

```
=> s e3-e4
'IN' IS NOT A VALID FIELD CODE
L5      36 ("TRAUTWEIN INGO"/AU OR "TRAUTWEIN INGO"/IN)
```

```
=> e he peng/au,in
'IN' IS NOT A VALID EXPAND FIELD CODE FOR FILE 'SCISEARCH'
E1      1      HE PENA/AU
E2      1      HE PENA/IN
E3      295 --> HE PENG/AU
E4      107     HE PENG/IN
E5      11     HE PENG BIN/AU
E6      1      HE PENG BIN/IN
E7      3      HE PENG CHENG/AU
E8      1      HE PENG CHENG/IN
E9      19     HE PENG FEI/AU
E10     17     HE PENG FEI/IN
E11     9      HE PENG JU/AU
E12     9      HE PENG JU/IN
```

The indicated field code is not available for EXPAND in this

file. To see a list of valid EXPAND field codes, enter HELP
SFIELDS at an arrow prompt (=>).

```
=> s e3-e12
'IN' IS NOT A VALID FIELD CODE
L6      337 ("HE PENG"/AU OR "HE PENG"/IN OR "HE PENG BIN"/AU OR "HE PENG
        BIN"/IN OR "HE PENG CHENG"/AU OR "HE PENG CHENG"/IN OR "HE PENG
        FEI"/AU OR "HE PENG FEI"/IN OR "HE PENG JU"/AU OR "HE PENG JU"/I
        N)
```

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=> s (11 or 12 or 13 or 14 or 15)
L7      90 (L1 OR L2 OR L3 OR L4 OR L5)
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```
=> dup rem l7
PROCESSING COMPLETED FOR L7
L8      80 DUP REM L7 (10 DUPLICATES REMOVED)
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=> d 18 1-80 ibib,abs
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```
L8  ANSWER 1 OF 80  HCAPLUS  COPYRIGHT 2009 ACS on STN DUPLICATE 1
ACCESSION NUMBER:  2009:191665  HCAPLUS
TITLE:             Method for soldering a workpiece through the use of a
                    solder curtain ; device for carrying out the method
                    with a molding part ; workpiece soldered according to
                    this method
INVENTOR(S):       Trautwein, Ingo; Weber-Lanig, Thomas; Andic,
                    Muejdat
PATENT ASSIGNEE(S): Behr Gmbh & Co. KG, Germany
SOURCE:            Eur. Pat. Appl.
                    CODEN: EPXXDW
DOCUMENT TYPE:     Patent
LANGUAGE:          German
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:
```

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
EP 2025442	A1	20090218	EP 2008-12971	20080718
R: AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HR, HU, IE, IS, IT, LI, LT, LU, LV, MC, MT, NL, NO, PL, PT, RO, SE, SI, SK, TR, AL, BA, MK, RS				
DE 102007038217	A1	20090219	DE 2007-102007038217	20070813
PRIORITY APPLN. INFO.:			DE 2007-102007038217A	20070813
AB Die Erfindung betrifft ein Verfahren zum Aufbringen einer duennen Lotschicht (10a) auf ein Werkstueck (10). Die Erfindung betrifft auch eine Vorrichtung (1) zur Durchfuehrung des Verfahrens. Es wird vorgeschlagen, dass das Werkstueck (9) quer durch einen Fluessigkeitsvorhang (12) eines Beschichtungsmediums (11), welches ein in vorzugsweise koerniger Form vorliegendes Lot (Lotpulver) enthaelt, gefuehrt wird. Die Vorrichtung (1) zur Durchfuehrung des Beschichtungsverfahrens umfasst einen Giessbehaelter (2), aus dem der Fluessigkeitsvorhang (12) austritt, und einen Vorlagebehaelter (3), aus welchem der Giessbehaelter (2) mit einem Beschichtungsmedium (11) beschickt wird.				
REFERENCE COUNT:	6	THERE ARE 6 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT		

```
L8  ANSWER 2 OF 80  HCAPLUS  COPYRIGHT 2009 ACS on STN
ACCESSION NUMBER:  2009:25437  HCAPLUS
TITLE:             Heat-transfer agent and procedure for the production
                    of a waving rib [Machine Translation].
INVENTOR(S):       Holzmann, Frank; Boger, Snjezana; Holler,
```

PATENT ASSIGNEE(S): Sebastian; Trautwein, Ingo
 SOURCE: Behr Gmbh & Co. KG, Germany
 Ger. Offen.
 CODEN: GWXXBX
 DOCUMENT TYPE: Patent
 LANGUAGE: German
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
DE 102007031675	A1	20090108	DE 2007-102007031675	20070706
PRIORITY APPLN. INFO.:			DE 2007-102007031675	20070706

AB [Machine Translation of Descriptors]. The invention concerns a heat-transfer agent with flat flow guidance elements (1) for a first medium and between the flow guidance elements (1) provided waving ribs (2), rush overable of a second medium, which wave combs extending in depth direction (L) the heat-transfer agent contain themselves, whereby the flow guidance elements (1) and the waving ribs (2) form a vertical provided block. It is suggested that the wave combs (2a) are inclined provided in relation to the depth direction (L). <de-figure num="0"> .

REFERENCE COUNT: 4 THERE ARE 4 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L8 ANSWER 3 OF 80 USPATFULL on SIN
 ACCESSION NUMBER: 2009:42826 USPATFULL
 TITLE: CONDUCTING DEVICE, IN PARTICULAR CORRUGATED FIN, FOR A HEAT EXCHANGER
 INVENTOR(S): Pfitzer, Matthias, Deizisau, GERMANY, FEDERAL REPUBLIC OF
 Trautwein, Ingo, Bietigheim-Bissingen, GERMANY, FEDERAL REPUBLIC OF
 PATENT ASSIGNEE(S): BEHR GmbH & Co. KG (non-U.S. corporation)

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 20090038786	A1	20090212
APPLICATION INFO.:	US 2007-278806	A1	20070212 (12)
	WO 2007-EP1173		20070212
			20080808 PCT 371 date

	NUMBER	DATE
PRIORITY INFORMATION:	DE 2006-10200600677020060213	
DOCUMENT TYPE:	Utility	
FILE SEGMENT:	APPLICATION	
LEGAL REPRESENTATIVE:	FOLEY AND LARDNER LLP, SUITE 500, 3000 K STREET NW, WASHINGTON, DC, 20007, US	
NUMBER OF CLAIMS:	15	
EXEMPLARY CLAIM:	1	
LINE COUNT:	247	

AB The invention relates to a conducting device, in particular a corrugated fin, for a heat exchanger, having at least one surface. In order to improve the efficiency of heat exchangers, in particular of evaporators, the surface of the conducting device has an increased roughness, in particular microscopic roughness.

L8 ANSWER 4 OF 80 USPATFULL on SIN
 ACCESSION NUMBER: 2009:11914 USPATFULL
 TITLE: METHOD FOR PRODUCING A METAL PART
 INVENTOR(S): Englert, Peter, Bad Friedrichshall, GERMANY,

FEDERAL REPUBLIC OF
Grunenwald, Bernd, Nurlingen, GERMANY, FEDERAL REPUBLIC
OF
Turpe, Matthias, Marbach a. N., GERMANY, FEDERAL
REPUBLIC OF

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 20090011202	A1	20090108
APPLICATION INFO.:	US 2007-162535	A1	20070129 (12)
	WO 2007-EP737		20070129
			20080729 PCT 371 date

	NUMBER	DATE
PRIORITY INFORMATION:	DE 2006-10200600434720060130	
DOCUMENT TYPE:	Utility	
FILE SEGMENT:	APPLICATION	
LEGAL REPRESENTATIVE:	FOLEY AND LARDNER LLP, SUITE 500, 3000 K STREET NW, WASHINGTON, DC, 20007, US	

NUMBER OF CLAIMS: 24
EXEMPLARY CLAIM: 1
NUMBER OF DRAWINGS: 4 Drawing Page(s)
LINE COUNT: 405

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB The invention relates to a method for producing a metal part. Said method comprises the steps of supplying a strand of metal material and applying a coating from a fluxing agent composition to a surface of the strand of material by means of an application device (1), said fluxing agent composition being applied to a defined portion of the surface of the strand of material by means of the application device (1).

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L8 ANSWER 5 OF 80 HCAPLUS COPYRIGHT 2009 ACS on STN DUPLICATE 2

ACCESSION NUMBER: 2008:978531 HCAPLUS
DOCUMENT NUMBER: 149:251400
TITLE: Heat exchanger
INVENTOR(S): Pfitzer, Matthias; Englert, Peter;
Gorges, Roger; Gruenewald, Bernd; Knoedler, Wolfgang
PATENT ASSIGNEE(S): Behr G.m.b.H. & Co. K.-G., Germany
SOURCE: PCT Int. Appl., 17pp.
CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: German
FAMILY ACC. NUM. COUNT: 2
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2008095578	A1	20080814	WO 2008-EP196	20080111
W:	AE, AG, AL, AM, AO, AT, AU, AZ, BA, BB, BG, BH, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DK, DM, DO, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, GT, HN, HR, HU, ID, IL, IN, IS, JP, KE, KG, KM, KN, KP, KR, KZ, LA, LC, LK, LR, LS, LT, LU, LY, MA, MD, ME, MG, MK, MN, MW, MX, MY, MZ, NA, NG, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RS, RU, SC, SD, SE, SG, SK, SL, SM, SV, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, ZA, ZM, ZW			
RW:	AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HR, HU, IE, IS, IT, LT, LU, LV, MC, MT, NL, NO, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG, BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW,			

AM, AZ, BY, KG, KZ, MD, RU, TJ, TM
 DE 102007005389 A1 20080807 DE 2007-102007005389 20070203
 PRIORITY APPLN. INFO.: DE 2007-102007005389A 20070203
 AB The invention relates to a heat exchanger, particularly a waste gas heat exchanger, or a charge air cooler, having at least one pipe made of a light metal, particularly aluminum, or an aluminum alloy, wherein a medium flows through the pipe, and a turbulence insert is disposed in the pipe. In order to create a heat exchanger, which has a long service life and is simple to produce, the turbulence insert is made of steel and is soldered to the pipe made of light metal.
 REFERENCE COUNT: 5 THERE ARE 5 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L8 ANSWER 6 OF 80 HCAPLUS COPYRIGHT 2009 ACS on STN DUPLICATE 3
 ACCESSION NUMBER: 2008:190808 HCAPLUS
 DOCUMENT NUMBER: 148:216817
 TITLE: Manufacture of corrosion-resistant coatings and components in fluidic circuits such as heat exchangers
 INVENTOR(S): Schaper, Joerg; Holler, Sebastian; Trauwein, Ingo; Boger, Snjezana; Holzmann, Frank
 PATENT ASSIGNEE(S): Behr G.m.b.H. & Co. K.-G., Germany
 SOURCE: PCT Int. Appl., 19pp.
 CODEN: PIXXD2
 DOCUMENT TYPE: Patent
 LANGUAGE: German
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2008017382	A2	20080214	WO 2007-EP6603	20070725
WO 2008017382	A3	20080925		
W:	AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BH, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DK, DM, DO, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, GT, HN, HR, HU, ID, IL, IN, IS, JP, KE, KG, KM, KN, KP, KR, KZ, LA, LC, LK, LR, LS, LT, LU, LY, MA, MD, ME, MG, MK, MN, MW, MX, MY, MZ, NA, NG, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RS, RU, SC, SD, SE, SG, SK, SL, SM, SV, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, ZA, ZM, ZW			
RW:	AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, LV, MC, MT, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GO, GW, ML, MR, NE, SN, TD, TG, BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AP, EA, EP, OA			

DE 102007035221 A1 20080214 DE 2007-102007035221 20070725
 PRIORITY APPLN. INFO.: DE 2006-102006037076A 20060807
 AB The invention relates to a process for producing a component, such as a heat exchanger, which has at least one coated surface. The invention is distinguished by a temperature-controlled gas stream laden with at least one reactive, gaseous component that is passed to a temperature-controlled surface of the heat exchanger. On the temperature-controlled surface, the gas stream reacts to form at least one solid, corrosion-resistant layer.

L8 ANSWER 7 OF 80 HCAPLUS COPYRIGHT 2009 ACS on STN DUPLICATE 4
 ACCESSION NUMBER: 2008:1011772 HCAPLUS
 DOCUMENT NUMBER: 149:270155
 TITLE: Heat exchange surface, heat exchanger and method for manufacturing a heat exchange surface
 INVENTOR(S): Duerr, Gottfried; Englert, Peter; Fischle, Klaus; Mamber, Oliver; Staffa, Karl-Heinz; Gorges, Roger; Walter, Christoph
 PATENT ASSIGNEE(S): Behr G.m.b.H. & Co. K.-G., Germany

SOURCE: Eur. Pat. Appl., 6pp.
 CODEN: EPXXDW
 DOCUMENT TYPE: Patent
 LANGUAGE: German
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
EP 1959220	A2	20080820	EP 2008-2439	20080211
R: AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HR, HU, IE, IS, IT, LI, LT, LU, LV, MC, MT, NL, NO, PL, PT, RO, SE, SI, SK, TR, AL, BA, MK, RS				
DE 102008008718	A1	20080821	DE 2008-102008008718	20080211
PRIORITY APPLN. INFO.:			DE 2007-102007007230A	20070214
AB The heat exchange surface, especially a lamellar surface which is hydrophilic and on which the heat transfer agent condenses, is roughened to improve its heat transfer characteristics. The surface is preferably an aluminum sheet used in air conditioners and are roughened to a depth of 1-10 µm. The roughening may be carried out by etching with an acid or a molten salt.				

L8 ANSWER 8 OF 80 HCAPLUS COPYRIGHT 2009 ACS on STN DUPLICATE 5

ACCESSION NUMBER: 2008:881908 HCAPLUS
 DOCUMENT NUMBER: 149:145444
 TITLE: Method for treating a vehicle component with a biocide
 INVENTOR(S): Boger, Snjezana; Burr, Reinhold; Mamber, Oliver; Schaper, Joerg; Wolf, Walter
 PATENT ASSIGNEE(S): Behr Gmbh & Co. KG, Germany
 SOURCE: Eur. Pat. Appl., 9pp.
 CODEN: EPXXDW
 DOCUMENT TYPE: Patent
 LANGUAGE: German
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
EP 1946638	A2	20080723	EP 2008-460	20080111
R: AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HR, HU, IE, IS, IT, LI, LT, LU, LV, MC, MT, NL, NO, PL, PT, RO, SE, SI, SK, TR, AL, BA, MK, RS				
DE 102008004186	A1	20080724	DE 2008-102008004186	20080111
PRIORITY APPLN. INFO.:			DE 2007-102007003322A	20070117
AB A vehicle component, such as for air conditioning, heating or air circulation, is subjected to biocidal treatment by application of a biocide to a sep. component. The biocide is transmitted to the target component by gravity, air stream, centrifugal arrangement, etc. Suitable biocides, Ag and Cu, esp.as nanoparticles, Cu salts, Na pyrithion, thiaabendazole, octylisothiazolone, etc.				

L8 ANSWER 9 OF 80 HCAPLUS COPYRIGHT 2009 ACS on STN DUPLICATE 6

ACCESSION NUMBER: 2008:633931 HCAPLUS
 DOCUMENT NUMBER: 148:540554
 TITLE: Exhaust gas heat exchanger with oleophobic coating
 INVENTOR(S): Englert, Peter; Boger, Snjezana; Pfitzer, Matthias
 PATENT ASSIGNEE(S): Behr G.m.b.H. & Co. K.-G., Germany
 SOURCE: Eur. Pat. Appl., 4pp.
 CODEN: EPXXDW
 DOCUMENT TYPE: Patent
 LANGUAGE: German

FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
EP 1925808	A2	20080528	EP 2007-22450	20071120
R: AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LI, LT, LU, LV, MC, MT, NL, PL, PT, RO, SE, SI, SK, TR, AL, BA, HR, MK, RS				
DE 102006054723	A1	20080529	DE 2006-102006054723	20061121

PRIORITY APPLN. INFO.: DE 2006-102006054723A 20061121

AB The invention concerns a heat exchanger, especially an exhaust gas heat exchanger with a metal surface (especially Al or stainless steel), which is exposed to the exhaust gas and provided with a coating. The coating is converted during high temps., especially a high operation temperature, into a corrosion-resistant, partly ceramic and or heavy wettable, especially oleophobic protective coating. The protective coating may contains catalytic, micro-capsuled additives and nanoparticles.

L8 ANSWER 10 OF 80 HCAPLUS COPYRIGHT 2009 ACS on STN

ACCESSION NUMBER: 2008:1097659 HCAPLUS
DOCUMENT NUMBER: 149:338320
TITLE: Exhaust gas filter system in particular for an automotive ventilation system
INVENTOR(S): Stiehler, Daniela; Burr, Reinhold; Englert, Peter
PATENT ASSIGNEE(S): Behr GmbH & Co. KG, Germany
SOURCE: Ger. Offen., 10pp.
CODEN: GWXXBX
DOCUMENT TYPE: Patent
LANGUAGE: German
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
DE 102008010862	A1	20080911	DE 2008-102008010862	20080225
DE 2007-1020070111851A 20070306				

PRIORITY APPLN. INFO.: DE 2007-1020070111851A 20070306

AB The invention concerns a filter system containing at least an air-flow throughable adsorption range, which adsorbs pollutants fast at its surface, and an adjacent 2nd absorption range for storing pollutants durably. The adsorption layer of the filter system is equipped with activated carbon and/or zeolites, whereby the absorption layer is provided with a polymer and/or silica gel and/or highly viscous oil coated fibers. The polymer can be selected from PP, PE, PU, polyester, polyamide. The layers are connected by an adhesive especially a PU resin, acrylic resin, epoxy resin and/or isoprene.

L8 ANSWER 11 OF 80 HCAPLUS COPYRIGHT 2009 ACS on STN

ACCESSION NUMBER: 2008:6081 HCAPLUS
DOCUMENT NUMBER: 148:124305
TITLE: Sterilization of the surface of a heat exchanger by application of an electric potential
INVENTOR(S): Englert, Peter; Gorges, Roger; Jilg, Ruediger; Boger, Snjezana; Holler, Sebastian; Holzmann, Frank; Schaper, Joerg; Trautwein, Ingo
PATENT ASSIGNEE(S): Behr G.m.b.H. & Co. K.-G., Germany
SOURCE: Ger. Offen., 10pp.
CODEN: GWXXBX
DOCUMENT TYPE: Patent

LANGUAGE: German
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
DE 102007025175	A1	20080103	DE 2007-102007025175	20070529
PRIORITY APPLN. INFO.:			DE 2006-102006029779IA	20060627
			DE 2006-102006040625IA	20060830

AB The surface of a heat exchanger, especially an evaporator, is sterilized by applying an elec. potential. The heat exchanger is coated with an elec. conductive polymer layer which is applied onto a conversion layer. Elec. conductive particles are mixed with a non-conductive polymer. The change of the applied potential changes the hydrophobicity of the coating of the heat exchanger. A generator is connected to the heat exchanger and the metal housing of an air conditioner. The generator is connected to a condensate collection pan of an air conditioner in which the heat exchanger is placed. The moisture film formed on the surface of the heat exchanger is used as the reaction zone to which a high-frequency elec. field is applied. The heat exchanger functions as an electrode for the application of a pulsed elec. field. The elec. conductive polymer layer contains a polyurethane, polyacrylate, polyamide, polyester, and/or polyolefin. The elec. conductive polymer layer can contain Ag, Au, Cu, and/or graphite particles. The elec. conductive polymer layer can contain additives made of polymers, such as polypropylene, polyamide 6, polyamide 6.6, polyethylene, or polyethylene terephthalate, carbon, glass, and/or metal, such as Al, steel, Cu, or Mg.

L8 ANSWER 12 OF 80 HCAPLUS COPYRIGHT 2009 ACS on STN
ACCESSION NUMBER: 2008:1098136 HCAPLUS
TITLE: Motor vehicle [Machine Translation].
INVENTOR(S): Boger, Snjezana; Trautwein, Ingo
PATENT ASSIGNEE(S): Behr GmbH & Co. KG, Germany
SOURCE: Ger. Offen.
CODEN: GWXXBX
DOCUMENT TYPE: Patent
LANGUAGE: German
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
DE 102007011954	A1	20080911	DE 2007-102007011954	20070309
PRIORITY APPLN. INFO.:			DE 2007-102007011954	20070309

AB [Machine Translation of Descriptors]. The invention concerns a motor vehicle with a heat source (1), in particular a heat producing internal-combustion engine, and a heat sink (8), in particular an air conditioning system, and with at least a fluid stream/current (8), that with the help of a Peltierelements (6) is tempered, in particular cooled, and preferably for keeping at a moderate temperature, in particular cooling, a vehicle interior used. In order to create a motor vehicle, which can be comfortably operated with a high efficiency, the Peltierelement (6) is for voltage supply to a Seebeckelement (3) is attached, the Peltierelement (6) with thermal stream/current supplied, that under utilization of the Seebeckeffekts from the temperature difference between the heat source (1), in particular the operating temperature of the internal-combustion engine, and the environment (4) won. <de-figure num="0"> .

REFERENCE COUNT: 5 THERE ARE 5 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L8 ANSWER 13 OF 80 HCAPLUS COPYRIGHT 2009 ACS on STN

ACCESSION NUMBER: 2008:940302 HCAPLUS
 DOCUMENT NUMBER: 149:251318
 TITLE: Exhaust gas heat exchanger tube or charge-air intercooler
 INVENTOR(S): Englert, Peter; Gorges, Roger; Gruenenwald, Bernd; Knoedler, Wolfgang; Pfitzer, Matthias
 PATENT ASSIGNEE(S): Behr G.m.b.H. & Co. K.-G., Germany
 SOURCE: Ger. Offen., 7pp.
 CODEN: GWXXBX
 DOCUMENT TYPE: Patent
 LANGUAGE: German
 FAMILY ACC. NUM. COUNT: 2
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
DE 102007005389	A1	20080807	DE 2007-102007005389	20070203
WO 2008095578	A1	20080814	WO 2008-EP196	20080111
W: AE, AG, AL, AM, AO, AT, AU, AZ, BA, BB, BG, BH, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DK, DM, DO, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, GT, HN, HR, HU, ID, IL, IN, IS, JP, KE, KG, KM, KN, KP, KR, KZ, LA, LC, LK, LR, LS, LT, LU, LY, MA, MD, ME, MG, MK, MN, MW, MX, MY, MZ, NA, NG, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RS, RU, SC, SD, SE, SG, SK, SL, SM, SV, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, ZA, ZM, ZW RW: AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HR, HU, IE, IS, IT, LT, LU, LV, MC, MT, NL, NO, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG, BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM				

PRIORITY APPLN. INFO.: DE 2007-102007005389A 20070203
 AB The invention concerns a heat exchanger, in particular an exhaust gas heat exchanger or a charge-air intercooler with a tube, which is manufactured from a light metal, in particular from Al or an Al alloy and which is passed by a medium that is provided with a turbulence insert. The turbulence insert is made of steel and soldered with the light metal tube to obtain a heat exchanger with an increased life span and that is simply to be manufactured
 REFERENCE COUNT: 6 THERE ARE 6 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L8 ANSWER 14 OF 80 HCAPLUS COPYRIGHT 2009 ACS on SIN
 ACCESSION NUMBER: 2008:828990 HCAPLUS
 DOCUMENT NUMBER: 149:142063
 TITLE: Heating device, in particular for a motor vehicle
 INVENTOR(S): Fischle, Klaus; Gross, Dieter; Pfitzer, Matthias
 PATENT ASSIGNEE(S): Behr G.m.b.H. & Co. K.-G., Germany
 SOURCE: Ger. Offen., 8pp.
 CODEN: GWXXBX
 DOCUMENT TYPE: Patent
 LANGUAGE: German
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
DE 102007001451	A1	20080710	DE 2007-102007001451	20070103
PRIORITY APPLN. INFO.:			DE 2007-102007001451	20070103

AB The invention concerns a heating device, in particular for a motor vehicle, which can be heated elec. The heating device structure which allows the through flow of air and contains at least an elec. conductive, air-permeable foil, which is can be heated elec. for warming the air, and

the foil forms a plurality of air flow channels which can be heated.
REFERENCE COUNT: 6 THERE ARE 6 CITED REFERENCES AVAILABLE FOR THIS
RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L8 ANSWER 15 OF 80 USPATFULL on STN
ACCESSION NUMBER: 2008:320218 USPATFULL
TITLE: Method for Producing a Plastic Part and Device
Comprising Said Plastic Part
INVENTOR(S): Boger, Snjezana, Esslingen, GERMANY, FEDERAL
REPUBLIC OF
Englert, Peter, Bad Friedrichshall, GERMANY,
FEDERAL REPUBLIC OF
Hinderberger, Hans-Dieter, Stuttgart, GERMANY, FEDERAL
REPUBLIC OF
Kammler, Georg, Stuttgart, GERMANY, FEDERAL REPUBLIC OF
Trautwein, Ingo, Bietigheim-Bissingen,
GERMANY, FEDERAL REPUBLIC OF
Weber- Lanig, Thomas, Marbach, GERMANY, FEDERAL
REPUBLIC OF
PATENT ASSIGNEE(S): BEHR GMBH & CO. KG, Stuttgart, GERMANY, FEDERAL
REPUBLIC OF (non-U.S. corporation)

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 20080281051	A1	20081113
APPLICATION INFO.:	US 2006-887432	A1	20060321 (11)
	WO 2006-EP2598		20060321
			20071128 PCT 371 date

	NUMBER	DATE
PRIORITY INFORMATION:	DE 2005-10200501532420050401	
DOCUMENT TYPE:	Utility	
FILE SEGMENT:	APPLICATION	
LEGAL REPRESENTATIVE:	FOLEY AND LARDNER LLP, SUITE 500, 3000 K STREET NW, WASHINGTON, DC, 20007, US	
NUMBER OF CLAIMS:	40	
EXEMPLARY CLAIM:	1	
LINE COUNT:	543	

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB The invention relates to a method for producing a plastic part.
According to said method, a plastic mass is heated to a moulding
temperature which is equal to or higher than a melting temperature. Said
plastic mass can be moulded by heat from the melting temperature.
Plastic mass is moulded when it has reached the moulding temperature,
the temperature of the moulding part is adjusted to a conversion
temperature which is dependent on the type of plastic and which is lower
than the melting temperature, and the moulded part is maintained at a
conversion temperature for a defined conversion time frame. The
invention also relates to a device comprising a plastic part which is
produced according to said inventive method.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L8 ANSWER 16 OF 80 USPATFULL on STN
ACCESSION NUMBER: 2008:280655 USPATFULL
TITLE: Heat Exchanger, In Particular Exhaust Gas Heat
Exchanger
INVENTOR(S): Fischle, Klaus, Tamm, GERMANY, FEDERAL REPUBLIC OF
Gross, Dieter, Stuttgart, GERMANY, FEDERAL REPUBLIC OF
Mamber, Oliver, Stuttgart, GERMANY, FEDERAL REPUBLIC OF
Pfitzer, Matthias, Deizisau, GERMANY, FEDERAL

PATENT ASSIGNEE(S): REPUBLIC OF
BEHR GmbH & Co., KG, Stuttgart, GERMANY, FEDERAL
REPUBLIC OF (non-U.S. corporation)

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 20080245512	A1	20081009
APPLICATION INFO.:	US 2006-66588	A1	20060912 (12)
	WO 2006-EP8851		20060912
			20080508 PCT 371 date

	NUMBER	DATE
PRIORITY INFORMATION:	DE 2005-10200504373020050914	
DOCUMENT TYPE:	Utility	
FILE SEGMENT:	APPLICATION	
LEGAL REPRESENTATIVE:	FOLEY AND LARDNER LLP, SUITE 500, 3000 K STREET NW, WASHINGTON, DC, 20007, US	
NUMBER OF CLAIMS:	9	
EXEMPLARY CLAIM:	1	
LINE COUNT:	150	

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB The invention relates to a heat exchanger, in particular an exhaust gas heat exchanger, having at least one surface which is impinged on by a medium, in particular exhaust gas, is made from metal, in particular aluminum or stainless steel, and is provided with a coating. In order to improve the properties of the coating, according to the invention, the coating comprises a coating material based on nanotechnology.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L8 ANSWER 17 OF 80 USPATFULL on STN
ACCESSION NUMBER: 2008:43851 USPATFULL
TITLE: Coating Method
INVENTOR(S): Boger, Snjezana, Esslingen, GERMANY, FEDERAL
REPUBLIC OF
Englert, Peter, Bad Friedrichshall, GERMANY,
FEDERAL REPUBLIC OF
Holzmann, Frank, Geislingen, GERMANY, FEDERAL REPUBLIC
OF
Pfitzer, Matthias, Aalen, GERMANY, FEDERAL
REPUBLIC OF
Trautwein, Ingo, Bietigheim-Bissingen,
GERMANY, FEDERAL REPUBLIC OF
PATENT ASSIGNEE(S): BEHR GmbH & Co. KG, Stuttgart, GERMANY, FEDERAL
REPUBLIC OF (non-U.S. corporation)

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 20080038471	A1	20080214
APPLICATION INFO.:	US 2005-576918	A1	20051005 (11)
	WO 2005-EP10800		20051005
			20070531 PCT 371 date

	NUMBER	DATE
PRIORITY INFORMATION:	DE 2004-10200404910720041007	
DOCUMENT TYPE:	Utility	
FILE SEGMENT:	APPLICATION	
LEGAL REPRESENTATIVE:	FOLEY AND LARDNER LLP, SUITE 500, 3000 K STREET NW, WASHINGTON, DC, 20007, US	
NUMBER OF CLAIMS:	36	

EXEMPLARY CLAIM: 1
LINE COUNT: 521
CAS INDEXING IS AVAILABLE FOR THIS PATENT.
AB The invention relates to a method for coating heated work pieces.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L8 ANSWER 18 OF 80 EPFULL COPYRIGHT 2009 EPO/FIZ KA/LNU on STN

ACCESSION NUMBER: 2007:19896 EPFULL
ENTRY DATE PATENT: 20071024
ENTRY DATE PUBLICATION: 20081105
UPDATE DATE PUBLICATION: 20081105
DATA UPDATE DATE: 20081105
DATA UPDATE WEEK: 200845
TITLE (ENGLISH): CONDUCTING DEVICE, IN PARTICULAR CORRUGATED FIN, FOR A
HEAT EXCHANGER
TITLE (FRENCH): DISPOSITIF DIRECTEUR, EN PARTICULIER AILETTE ONDULEE
POUR ECHANGEUR THERMIQUE
TITLE (GERMAN): LEITEINRICHTUNG, INSBESONDERE WELLRIPPE, FÜR EINEN
WÄRMEÜBERTRÄGER
INVENTOR(S): PFITZER, Matthias, Marktstrasse 18, 73779
Deizisau, DE; TRAUTWEIN, Ingo, Turmstr. 45,
74321 Bietigheim-Bissingen, DE
PATENT APPLICANT(S): Behr GmbH & Co. KG, Mauserstrasse 3, 70469 Stuttgart,
DE
PATENT APPL. NUMBER: 7403720
DOCUMENT TYPE: Patent
LANGUAGE OF FILING: German
LANGUAGE OF PUBL.: German
LANGUAGE OF PROCEDURE: German
LANGUAGE OF TITLE: German; English; French
PATENT INFO TYPE: EPAL Application published with search report
PATENT INFORMATION:
PATENT INFORMATION:

NUMBER	KIND	DATE
NUMBER	KIND	DATE

EP 1987310	A1	20081105
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WO 2007093338		20070823
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DESIGNATED STATES: AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IS IT
LI LT LU LV MC NL PL PT RO SE SI SK TR

APPLICATION INFO.: EP 2007-703405 A 20070212

WO 2007-EP1173 A 20070212

PRIORITY INFO.: DE 2006-102006006770 A 20060213

L8 ANSWER 19 OF 80 EPFULL COPYRIGHT 2009 EPO/FIZ KA/LNU on STN

ACCESSION NUMBER: 2007:13853 EPFULL
ENTRY DATE PATENT: 20071017
ENTRY DATE PUBLICATION: 20081023
UPDATE DATE PUBLICATION: 20081023
DATA UPDATE DATE: 20081022
DATA UPDATE WEEK: 200843
TITLE (ENGLISH): METHOD FOR PRODUCING A METAL PART
TITLE (FRENCH): PROCEDE DE PRODUCTION D'UNE PIECE METALLIQUE
TITLE (GERMAN): VERFAHREN ZUR HERSTELLUNG EINES METALLTEILS
INVENTOR(S): ENGLERT, Peter, Heideweg 7/1, 74177 Bad
Friedrichshall, DE; GRÜENENWALD, Bernd,
Boerlenbergweg 2, 72622 Nuertingen, DE; TÜRPE,
Matthias, Ziegelstr. 13, 71672 Marbach a. N., DE

PATENT APPLICANT(S): Behr GmbH & Co. KG, Mauserstrasse 3, 70469 Stuttgart,
DE
PATENT APPL. NUMBER: 7403720
DOCUMENT TYPE: Patent
LANGUAGE OF FILING: German
LANGUAGE OF PUBL.: German
LANGUAGE OF PROCEDURE: German
LANGUAGE OF TITLE: German; English; French
PATENT INFO TYPE: EPat Application published with search report
PATENT INFORMATION:
PATENT INFORMATION:

NUMBER	KIND	DATE
NUMBER	KIND	DATE
EP 1981675	A1	20081022

DESIGNATED STATES: WO 2007085484 20070802
AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IS IT
LI LT LU LV MC NL PL PT RO SE SI SK TR
APPLICATION INFO.: EP 2007-703097 A 20070129
WO 2007-EP737 A 20070129
PRIORITY INFO.: DE 2006-102006004347 A 20060130

L8 ANSWER 20 OF 80 EPPULL COPYRIGHT 2009 EPO/FIZ KA/LNU on STN

ACCESSION NUMBER: 2006:140696 EPPULL

ENTRY DATE PATENT: 20070816

ENTRY DATE PUBLICATION: 20080808

UPDATE DATE PUBLICATION: 20090121

DATA UPDATE DATE: 20090121

DATA UPDATE WEEK: 200904

TITLE (ENGLISH): SOLDERING METHOD FOR JOINING DIFFERENT BASIC METALLIC
MATERIALS BY MEANS OF AN EXOTHERMAL REACTION, AND HEAT
EXCHANGER PRODUCED ACCORDING TO SAID METHOD
TITLE (FRENCH): PROCEDE DE SOUDAGE DESTINE A LA CONNEXION DE DIVERS
MATERIAUX METALLIQUES DE BASE PAR REACTION EXOTHERMIQUE
ET ECHANGEUR THERMIQUE POUVANT ETRE FABRIQUE AU MOYEN
DE CE PROCEDE

TITLE (GERMAN): LOETVERFAHREN ZUM VERBINDEN VERSCHIEDENER METALLISCHER
GRUNDWERKSTOFFE DURCH EINE EXOTHERME REAKTION, SOWIE
EIN MIT DEM VERFAHREN HERSTELLBARER WAERMETAUSCHER
INVENTOR(S): BOGER, Snjezana, Rechbergstr. 4, 73734 Esslingen,
DE; ENGLERT, Peter, Heideweg 7/1, 74177 Bad

Friedrichshall, DE; HOLLER, Sebastian, Zellerstr.
52, 70180 Stuttgart, DE; TRAUTWEIN, Ingo, Turmstr.
45, 74321 Bietigheim-Bissingen, DE; TuerPE,
Matthias, Ziegelstr. 13, 71672 Marbach a. N., DE
PATENT APPLICANT(S): Behr GmbH & Co. KG, Mauserstrasse 3, 70469 Stuttgart,
DE

PATENT APPL. NUMBER: 7403720

DOCUMENT TYPE: Patent

LANGUAGE OF FILING: German

LANGUAGE OF PUBL.: German

LANGUAGE OF PROCEDURE: German

LANGUAGE OF TITLE: German; English; French

PATENT INFO TYPE: EPat Application published with search report

PATENT INFORMATION:

PATENT INFORMATION:

NUMBER	KIND	DATE
NUMBER	KIND	DATE
EP 1951468	A1	20080806

DESIGNATED STATES: WO 2007054306 20070518
 AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IS IT
 LI LT LU LV MC NL PL PT RO SE SI SK TR
 APPLICATION INFO.: EP 2006-828982 A 20061109
 WO 2006-EP10750 A 20061109
 PRIORITY INFO.: DE 2005-102005053851 A 20051109
 DE 2005-102005054294 A 20051111

L8 ANSWER 21 OF 80 EPFULL COPYRIGHT 2009 EPO/FIZ KA/LNU on STN

ACCESSION NUMBER: 2006:116137 EPFULL
 ENTRY DATE PATENT: 20070628
 ENTRY DATE PUBLICATION: 20080604
 UPDATE DATE PUBLICATION: 20081001
 DATA UPDATE DATE: 20081001
 DATA UPDATE WEEK: 200840
 TITLE (ENGLISH): HEAT EXCHANGER, IN PARTICULAR EXHAUST GAS HEAT EXCHANGER
 TITLE (FRENCH): ECHANGEUR THERMIQUE, EN PARTICULIER ECHANGEUR THERMIQUE POUR GAZ D'ECHAPPEMENT
 TITLE (GERMAN): WAERMETAUSCHER, INSBESONDERE ABGASWAERMETAUSCHER
 INVENTOR(S): FISCHLE, Klaus, Boeblinger Weg 22, 71732 Tamm, DE;
 GROSS, Dieter, Silberburgstrasse 94, 70176 Stuttgart, DE;
 MAMBER, Oliver, Lemberger Weg 2, 71706 Markgroeningen, DE; PFITZER, Matthias, Marktstrasse 18, 73779 Deizisau, DE
 PATENT APPLICANT(S): Behr GmbH & Co. KG, Mauserstrasse 3, 70469 Stuttgart, DE
 PATENT APPL. NUMBER: 7403720
 DOCUMENT TYPE: Patent
 LANGUAGE OF FILING: German
 LANGUAGE OF PUBL.: German
 LANGUAGE OF PROCEDURE: German
 LANGUAGE OF TITLE: German; English; French
 PATENT INFO TYPE: EPO Application published with search report
 PATENT INFORMATION:
 PATENT INFORMATION:

NUMBER	KIND	DATE
NUMBER	KIND	DATE
EP 1926962	A1	20080604

DESIGNATED STATES: WO 2007031262 20070322
 AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IS IT
 LI LT LU LV MC NL PL PT RO SE SI SK TR
 APPLICATION INFO.: EP 2006-805687 A 20060912
 WO 2006-EP8851 A 20060912
 PRIORITY INFO.: DE 2005-102005043730 A 20050914

L8 ANSWER 22 OF 80 EPFULL COPYRIGHT 2009 EPO/FIZ KA/LNU on STN

ACCESSION NUMBER: 2006:99571 EPFULL
 ENTRY DATE PATENT: 20070516
 ENTRY DATE PUBLICATION: 20080416
 UPDATE DATE PUBLICATION: 20080709
 DATA UPDATE DATE: 20080709
 DATA UPDATE WEEK: 200828
 TITLE (ENGLISH): SURFACE TO BE SOLDERED
 TITLE (FRENCH): SURFACE A BRASER
 TITLE (GERMAN): ZU VERLOETENDE OBERFLAECHE
 INVENTOR(S): BOGER, Snjezana, Boger, Rechbergstrasse 4, 73734

Esslingen, DE; ENGLERT, Peter, Heideweg 7/1,
74177 Bad Friedrichshall, DE; GROSS, Dieter,
Silberburgstrasse 94, 70176 Stuttgart, DE;
PFITZER, Matthias, Veilchenweg 14, 73779 Deizisau,
DE; TRAUTWEIN, Ingo, Turmstrasse 45, 74321
Bietigheim-Bissingen, DE

PATENT APPLICANT(S): Behr GmbH & Co. KG, Mauserstrasse 3, 70469 Stuttgart, DE

PATENT APPL. NUMBER: 7403720

DOCUMENT TYPE: Patent

LANGUAGE OF FILING: German

LANGUAGE OF PUBL.: German

LANGUAGE OF PROCEDURE: German

LANGUAGE OF TITLE: German; English; French

PATENT INFO TYPE: EPA1 Application published with search report

PATENT INFORMATION:

NUMBER	KIND	DATE
NUMBER	KIND	DATE

EP 1910008	A1	20080416
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WO 2007012434		20070201
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DESIGNATED STATES: AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IS IT
LI LT LU LV MC NL PL PT RO SE SI SK TR

APPLICATION INFO.: EP 2006-776337 A 20060721

WO 2006-EP7190 A 20060721

PRIORITY INFO.: DE 2005-102005035704 A 20050727

L8 ANSWER 23 OF 80 EPFULL COPYRIGHT 2009 EPO/FIZ KA/LNU on STN

ACCESSION NUMBER: 2006:36963 EPFULL

ENTRY DATE PATENT: 20061124

ENTRY DATE PUBLICATION: 20080409

UPDATE DATE PUBLICAT.: 20080709

DATA UPDATE DATE: 20080709

DATA UPDATE WEEK: 200828

TITLE (ENGLISH): METHOD FOR PRODUCING A PLASTIC PART AND DEVICE
COMPRISING SAID PLASTIC PART

TITLE (FRENCH): PROCEDE DE PRODUCTION D'UNE PIECE EN PLASTIQUE, ET
DISPOSITIF COMPORTANT CETTE PIECE EN PLASTIQUE

TITLE (GERMAN): VERFAHREN ZUR HERSTELLUNG EINES KUNSTSTOFFTEILS UND
VORRICHTUNG MIT DIESEM KUNSTSTOFFTEIL

INVENTOR(S): BOGER, Snjezana, Rechbergstrasse 4, 73734
Esslingen, DE; ENGLERT, Peter, Heideweg 7/1,
74177 Bad Friedrichshall, DE; HINDERBERGER,
Hans-Dieter, Mainzer Str. 54, 70499 Stuttgart, DE;
KAEMMLER, Georg, Nobilweg 11b, 70439 Stuttgart, DE;
TRAUTWEIN, Ingo, Turmstrasse 45, 74321
Bietigheim-Bissingen, DE; WEBER-LANIG, Thomas,
Chemnitz Weg 13, 71672 Marbach, DE

PATENT APPLICANT(S): Behr GmbH & Co. KG, Mauserstrasse 3, 70469 Stuttgart, DE

PATENT APPL. NUMBER: 7403720

DOCUMENT TYPE: Patent

LANGUAGE OF FILING: German

LANGUAGE OF PUBL.: German

LANGUAGE OF PROCEDURE: German

LANGUAGE OF TITLE: German; English; French

PATENT INFO TYPE: EPA2 Application published without search report

PATENT INFORMATION:

PATENT INFORMATION:

	NUMBER NUMBER	KIND KIND	DATE DATE

	EP 1907196	A2	20080409

	WO 2006103013		20061005
DESIGNATED STATES:	AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IS IT		
	LI LT LU LV MC NL PL PT RO SE SI SK TR		
APPLICATION INFO.:	EP 2006-723599	A	20060321
	WO 2006-EP2598	A	20060321
PRIORITY INFO.:	DE 2005-102005015324	A	20050401

L8 ANSWER 24 OF 80 EPFULL COPYRIGHT 2009 EPO/FIZ KA/LNU on STN

ACCESSION NUMBER: 2007:60378 EPFULL
ENTRY DATE PATENT: 20080312
ENTRY DATE PUBLICATION: 20080312
UPDATE DATE PUBLICATION: 20081119
DATA UPDATE DATE: 20081119
DATA UPDATE WEEK: 200847
TITLE (ENGLISH): Flux composition for brazing of parts, in particular with aluminum as base material, and use thereof
TITLE (FRENCH): Composition de flux au brasage des pieces, en particulier a base d'aluminium, et utilisation
TITLE (GERMAN): Flussmittelzusammensetzung zum Hartloeten von Teilen, insbesondere auf der Basis von Aluminium als Grundmaterial, sowie deren Verwendung
INVENTOR(S): Englert, Peter, Dipl.-Ing.(FH), Heidenweg 7/1, 74177 Bad Friedrichshall, DE; Trautwein, Ingo, Turmstrasse 45, 74321 Bietigheim-Bissingen, DE; Skiba, Erwin, Dipl.-Ing., Friedemannweg 14, 70563 Stuttgart, DE
PATENT APPLICANT(S): Behr GmbH & Co. KG, Mauserstrasse 3, 70469 Stuttgart, DE
PATENT APPL. NUMBER: 7403720
AGENT: Grosse, Rainer, et al, Gleiss Grosse Schrell & Partner Leitzstrasse 45, 70469 Stuttgart, DE
AGENT NUMBER: 57524
DOCUMENT TYPE: Patent
LANGUAGE OF FILING: German
LANGUAGE OF PUBL.: German
LANGUAGE OF PROCEDURE: German
LANGUAGE OF TITLE: German; English; French
PATENT INFO TYPE: EPAl Application published with search report
PATENT INFORMATION:

	NUMBER	KIND	DATE

	EP 1897651	A1	20080312
DESIGNATED STATES:	AT BE BG CH CY CZ DE DK EE ES FI FR GB GR IE IT LI LU		
	MC NL PT SE SK TR		
APPLICATION INFO.:	EP 2007-22656	A	20020807
RELATED DOC. INFO.:	EP 2002-17571		20020807 EP 1287941 Parent Application
PRIORITY INFO.:	DE 2001-10141883	A	20010828

ABEN

Brazing flux composition, useful e.g. for producing coated molded parts for automobile construction, comprises a flux, a solvent, a binding agent and thixotroping agent, where flux is based on potassium fluoroaluminate

Brazing flux composition comprises at least a flux, a solvent and a binding agent, where the binding agent: is a chemically and/or physically

dryable organic compound, preferably polyurethane, is brazed under warming at above 450[deg] C for disintegrating its polymer components to low molecular volatile components without residues and the resulting components as a result of thermal disintegration, are bound to residual oxygen. Independent claims are included for: (1) producing brazing flux composition comprising providing half of the solvent together with the binding agent and a thixotroping agent; adding the flux under stirring to the above mixture; and adding the remaining solvent to the mixture; (2) a brazing procedure for the production of fused molded parts based on aluminum or aluminum alloys, comprising providing the flux composition on the molded parts and connecting the coated molded parts in a soldering furnace using brazing under warming at 450[deg] C, preferably over 560[deg] C, for disintegrating the polymer components of the binding agent to low molecular volatile components without residues and the resulting components as a result of thermal disintegration, are bound to residual oxygen; and (3) a braze coating comprising the brazing flux composition.

ABDE

Flussmittelzusammensetzungen werden zur Veruegung gestellt, die ein Flussmittel, ein Loesungsmittel sowie ein Bindemittel enthalten. Ausserdem stellt die Erfindung unter anderem ein Verfahren zum Herstellen beschichteter Formteile, insbesondere beschichteter Formteile fuer den Automobilbau auf der Basis von Al und/oder Al-Legierungen, unter Einsatz der erfindungsgemassen Flussmittelzusammensetzung und entsprechende beschichtete Formteile auf der Basis von Aluminium oder Aluminiumlegierungen sowie ein entsprechendes Hartloetverfahren zum Herstellen verbundener Formteile auf der Basis von Aluminium oder Aluminiumlegierungen bereit. Eine besonders bevorzugte Ausuehrungsform der Erfindung betrifft ein Verfahren, bei dem eine Flussmittelschicht und eine Versiegelungsschicht direkt auf einem Rohteil wie etwa einem Coil aufgetragen werden und erst anschliessend eine Umformung zu einem Formteil erfolgt.

L8 ANSWER 25 OF 80 EPFULL COPYRIGHT 2009 EPO/FIZ KA/LNU on STN

ACCESSION NUMBER: 2006:39023 EPFULL
 ENTRY DATE PATENT: 20061129
 ENTRY DATE PUBLICATION: 20080725
 UPDATE DATE PUBLICAT.: 20090304
 DATA UPDATE DATE: 20090304
 DATA UPDATE WEEK: 200910
 TITLE (ENGLISH): Air conditioner, in particular for a vehicle
 TITLE (FRENCH): Climatisation, en particulier pour un vehicule
 TITLE (GERMAN): Klimaanlage, insbesondere fuer ein Kraftfahrzeug
 INVENTOR(S): Englert, Peter, Dipl.-Ing. (FH), Heideweg 7/1,
 74177 Bad Friedrichshall, DE; Klingler, Dietrich,
 Dipl.-Ing., Richard-Wagner-Strasse 16, 73540 Heubach,
 DE
 PATENT APPLICANT(S): Behr GmbH & Co. KG, Mauserstrasse 3, 70469 Stuttgart,
 DE
 PATENT APPL. NUMBER: 7403720
 DOCUMENT TYPE: Patent
 LANGUAGE OF FILING: German
 LANGUAGE OF PUBL.: German
 LANGUAGE OF PROCEDURE: German
 LANGUAGE OF TITLE: German; English; French
 PATENT INFO TYPE: EPBI Granted patent
 PATENT INFORMATION:

NUMBER	KIND	DATE
EP 1726466	B1	20080723

DESIGNATED STATES: AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IS IT
 LI LT LU LV MC NL PL PT RO SE SI SK TR
 APPLICATION INFO.: EP 2006-10561 A 20060523

PRIORITY INFO.: DE 2005-102005024446 A 20050524
 CITED PATENT LIT.: DE 10258025 A1
 FR 2858269 A
 US 5983659 A
 US 20040003602 A1

ABEN

Air conditioner e.g. for motor vehicle air conditioning system has bleeding opening which is provided in housing whereby heater and evaporator are arranged in housing and flaps are provided for controlling air-flow

An air conditioner (1) has a heater (5) and an evaporator (4) which is arranged in a housing (2). The flaps (7,8) are provided for controlling the air-flow. A bleeding opening (9) is provided in the housing. The bleeding opening is controllable by a bleeding flap (10). An independent claim is also included for the method for controlling an air conditioner.

ABDE

Die Erfindung betrifft eine Klimaanlage (1), insbesondere fuer Kraftfahrzeug-Klimaanlage, mit mindestens einem in einem Gehaeuse (2) angeordneten Heizer (5) und einem Verdampfer (4), wobei Klappen (6, 7, 8) zur Regelung des Luftstroms eine Entlueftungsoeffnung (9) vorgesehen sind, sowie ein Verfahren dieselbe zu betreiben.

(image, imgaf001.tif, drawing)

L8 ANSWER 26 OF 80 EPFULL COPYRIGHT 2009 EPO/FIZ KA/LNU on STN

ACCESSION NUMBER: 2003:26762 EPFULL
 ENTRY DATE PUBLICATION: 20080220
 UPDATE DATE PUBLICATION: 20090311
 DATA UPDATE DATE: 20090311
 DATA UPDATE WEEK: 200911
 TITLE (ENGLISH): METHOD FOR SOLDERING ALUMINUM
 TITLE (FRENCH): PROCEDE DE BRASAGE D'ALUMINIUM
 TITLE (GERMAN): VERFAHREN ZUM LOETEN VON ALUMINIUM
 INVENTOR(S): ENGLERT, Peter, Landhausstrasse 5, 74177 Bad
 Friedrichshall, DE; HEEB, Wolfgang,
 Freiburgstrasse 5, 73614 Schorndorf, DE; KNOEDLER,
 Wolfgang, Herderweg 9, 71332 Waiblingen, DE
 PATENT APPLICANT(S): Behr GmbH & Co. KG, Mauserstrasse 3, 70469 Stuttgart,
 DE
 PATENT APPL. NUMBER: 4335290
 AGENT: Grauel, Andreas, BEHR GmbH & Co. KG Intellectual
 Property G-IP Mauserstrasse 3, 70469 Stuttgart, DE
 AGENT NUMBER: 94254
 DOCUMENT TYPE: Patent
 LANGUAGE OF FILING: German
 LANGUAGE OF PUBL.: German
 LANGUAGE OF PROCEDURE: German
 LANGUAGE OF TITLE: German; English; French
 PATENT INFO TYPE: EPB1 Granted patent
 PATENT INFORMATION:
 PATENT INFORMATION:

NUMBER	KIND	DATE
NUMBER	KIND	DATE
EP 1485224	B1	20080220

WO 2003076113 20030918
 DESIGNATED STATES: AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IT LI
 LU MC NL PT SE SI SK TR

EXTENSION STATES: AL LT LV MK RO
 APPLICATION INFO.: EP 2003-718676 A 20030225
 WO 2003-EP1894 A 20030225
 PRIORITY INFO.: DE 2002-10210217 A 20020308
 CITED PATENT LIT.: EP 1067213 A
 DE 3206809 A
 DE 3442538 A
 US 3844777 A
 CITED NON PATENT LIT.: (1) SCHMATZ D J ET AL: "A FLUXLESS PROCESS FOR BRAZING ALUMINUM HEAT EXCHANGERS IN INERT GAS", WELDING JOURNAL, AMERICAN WELDING SOCIETY. MIAMI, US, VOL. 62, NR. 10, PAGE(S) 31-38 XP002029306 ISSN: 0043-2296 das ganze Dokument

L8 ANSWER 27 OF 80 HCAPLUS COPYRIGHT 2009 ACS on STN
 ACCESSION NUMBER: 2007:941645 HCAPLUS
 DOCUMENT NUMBER: 147:279814
 TITLE: Conducting device, in particular corrugated fin, for a heat exchanger
 INVENTOR(S): Pfitzer, Matthias; Trautwein, Ingo
 PATENT ASSIGNEE(S): Behr G.m.b.H. & Co. K.-G., Germany
 SOURCE: PCT Int. Appl., 16pp.
 CODEN: PIXXD2
 DOCUMENT TYPE: Patent
 LANGUAGE: German
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2007093338	A1	20070823	WO 2007-EP1173	20070212
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, GT, HN, HR, HU, ID, IL, IN, IS, JP, KE, KG, KM, KN, KP, KR, KZ, LA, LC, LK, LR, LS, LT, LU, LV, LY, MA, MD, MG, MK, MN, MW, MX, MY, MZ, NA, NG, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RS, RU, SC, SD, SE, SG, SK, SL, SM, SV, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, ZA, ZM, ZW RW: AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, LV, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG, BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM DE 102006006770 A1 20070823 DE 2006-102006006770 20060213 EP 1987310 A1 20081105 EP 2007-703405 20070212 R: AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LI, LT, LU, LV, MC, NL, PL, PT, RO, SE, SI, SK, TR US 20090038786 A1 20090212 US 2008-278806 20080808 PRIORITY APPLN. INFO.: DE 2006-102006006770A 20060213 WO 2007-EP1173 W 20070212 AB The conducting device, in particular a corrugated fin, for a heat exchanger, having at least one surface has improved efficiency by roughing the surface of the conducting device, in particular by microscopic roughness. The apparatus is especially suitable for evaporators. REFERENCE COUNT: 7 THERE ARE 7 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT				

L8 ANSWER 28 OF 80 HCAPLUS COPYRIGHT 2009 ACS on STN
 ACCESSION NUMBER: 2007:845164 HCAPLUS
 DOCUMENT NUMBER: 147:217528
 TITLE: Production of metal parts
 INVENTOR(S): Englert, Peter; Gruenenwald, Bernd; Tuerpe,

PATENT ASSIGNEE(S): Matthias
 Behr G.m.b.H. & Co. K.-G., Germany
 SOURCE: PCT Int. Appl., 23pp.
 CODEN: PIXXD2
 DOCUMENT TYPE: Patent
 LANGUAGE: German
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2007085484	A1	20070802	WO 2007-EP737	20070129
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, GT, HN, HR, HU, ID, IL, IN, IS, JP, KE, KG, KM, KN, KP, KR, KZ, LA, LC, LK, LR, LS, LT, LU, LV, LY, MA, MD, MG, MK, MN, MW, MX, MY, MZ, NA, NG, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RS, RU, SC, SD, SE, SG, SK, SL, SM, SV, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, ZA, ZM, ZW RW: AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, LV, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG, BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM DE 102007005167 A1 20070802 DE 2007-102007005167 20070129 EP 1981675 A1 20081022 EP 2007-703097 20070129 R: AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LI, LT, LU, LV, MC, NL, PL, PT, RO, SE, SI, SK, TR KR 2008093105 A 20081020 KR 2008-717839 20080721 US 20090011202 A1 20090108 US 2008-162535 20080729 CN 101374623 A 20090225 CN 2007-80003824 20080729 MX 2008009763 A 20080814 MX 2008-9763 20080730 PRIORITY APPLN. INFO.: DE 2006-102006004347A 20060130 WO 2007-EP737 W 20070129				
AB A method for production of metal parts involves (1) supply of a metal (e.g., Al alloy) strip and (2) automatic deposition of a coating made of a fluxing agent composition on a surface of metal strip by means of an application device (e.g., deposition roll). The fluxing agent composition is applied only on a defined portion of the strip surface by means of the application device. Typically, the method is suitable in manufacture of heat exchanger tubes.				
REFERENCE COUNT:	3	THERE ARE 3 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT		

L8 ANSWER 29 OF 80 HCAPLUS COPYRIGHT 2009 ACS on STN
 ACCESSION NUMBER: 2007:329256 HCAPLUS
 DOCUMENT NUMBER: 146:361159
 TITLE: Heat exchanger, in particular exhaust gas heat exchanger
 INVENTOR(S): Fischle, Klaus; Gross, Dieter; Mamber, Oliver; Pfitzer, Matthias
 PATENT ASSIGNEE(S): Behr G.m.b.H. & Co. K.-G., Germany
 SOURCE: PCT Int. Appl., 14pp.
 CODEN: PIXXD2
 DOCUMENT TYPE: Patent
 LANGUAGE: German
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2007031262	A1	20070322	WO 2006-EP8851	20060912

W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HN, HR, HU, ID, IL, IN, IS, JP, KE, KG, KM, KN, KP, KR, KZ, LA, LC, LK, LR, LS, LT, LU, LV, LY, MA, MD, MG, MK, MN, MW, MX, MY, MZ, NA, NG, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RS, RU, SC, SD, SE, SG, SK, SL, SM, SV, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, ZA, ZM, ZW

RW: AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, LV, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG, BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM

DE 102005043730 A1 20070322 DE 2005-102005043730 20050914
 EP 1926962 A1 20080604 EP 2006-805687 20060912

R: AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LI, LT, LU, LV, MC, NL, PL, PT, RO, SE, SI, SK, TR

JP 2009508080 T 20090226 JP 2008-530399 20060912
 MX 2008003479 A 20080407 MX 2008-3479 20080312
 IN 2008CN01254 A 20081128 IN 2008-CN1254 20080313
 US 20080245512 A1 20081009 US 2008-66588 20080508
 CN 101305255 A 20081112 CN 2006-80042045 20080512

PRIORITY APPLN. INFO.: DE 2005-102005043730A 20050914
 WO 2006-EP8851 W 20060912

AB The invention relates to a heat exchanger, especially an exhaust gas heat exchanger, having ≥ 1 metal surface (especially Al or stainless steel) which is impacted by a medium, in particular exhaust gas, and is provided with a coating. To improve the coating properties, the coating comprises a coating material based on nanotechnology.

REFERENCE COUNT: 6 THERE ARE 6 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L8 ANSWER 30 OF 80 HCAPLUS COPYRIGHT 2009 ACS on SIN

ACCESSION NUMBER: 2007:119302 HCAPLUS
 DOCUMENT NUMBER: 146:188510
 TITLE: Surface to be soldered
 INVENTOR(S): Boger, Snjezana Boger; Englert, Peter; Gross, Dieter; Pfitzer, Matthias; Trautwein, Ingo

PATENT ASSIGNEE(S): Behr G.m.b.H. & Co. K.-G., Germany
 SOURCE: PCT Int. Appl., 24pp.
 CODEN: PIXXD2

DOCUMENT TYPE: Patent
 LANGUAGE: German
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2007012434	A1	20070201	WO 2006-EP7190	20060721
W:	AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HN, HR, HU, ID, IL, IN, IS, JP, KE, KG, KM, KN, KP, KR, KZ, LA, LC, LK, LR, LS, LT, LU, LV, LY, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NG, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RS, RU, SC, SD, SE, SG, SK, SL, SM, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, ZA, ZM, ZW			
RW:	AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, LV, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG, BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM			
DE 102005035704	A1	20070201	DE 2005-102005035704	20050727

EP 1910008 A1 20080416 EP 2006-776337 20060721
 R: AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE,
 IS, IT, LI, LT, LU, LV, MC, NL, PL, PT, RO, SE, SI, SK, TR
 JP 2009502509 T 20090129 JP 2008-523193 20060721
 PRIORITY APPLN. INFO.: DE 2005-102005035704A 20050727
 WO 2006-EP7190 W 20060721
 AB The invention relates to a surface of an object, especially a heat exchanger
 (e.g. a lateral part, a wavy rib, or a tube), which is to be soldered by
 using a flux layer. To improve the properties of the surface to be
 soldered, the surface is provided with ≥ 1 layer in addition to the
 flux layer. The addnl. layer contains an additive which modifies the
 surface to be soldered. The additive is reacted to modify the surface
 during soldering.

REFERENCE COUNT: 6 THERE ARE 6 CITED REFERENCES AVAILABLE FOR THIS
 RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L8 ANSWER 31 OF 80 HCAPLUS COPYRIGHT 2009 ACS on STN
 ACCESSION NUMBER: 2007:1389509 HCAPLUS
 DOCUMENT NUMBER: 148:37563
 TITLE: Brazing surface of an aluminum heat exchanger
 INVENTOR(S): Englert, Peter; Jilg, Ruediger; Tuerpe,
 Matthias
 PATENT ASSIGNEE(S): BEHR G.m.b.H. & Co. K.-G., Germany
 SOURCE: Ger. Offen., 5pp.
 CODEN: GWXXBX
 DOCUMENT TYPE: Patent
 LANGUAGE: German
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
DE 102007008458	A1	20071206	DE 2007-102007008458	20070219
PRIORITY APPLN. INFO.:			DE 2006-102006009647IA	20060302

AB The invention concerns brazing of a surface of aluminum heat exchanger,
 which is carried out with preliminary deposition of the flux layer. In
 order to simplify the manufacturing of heat-transfer articles, the flux layer
 is covered with a lubricant layer. The lubricant is a silicone resin or
 silicone oil.

L8 ANSWER 32 OF 80 HCAPLUS COPYRIGHT 2009 ACS on STN
 ACCESSION NUMBER: 2007:509456 HCAPLUS
 DOCUMENT NUMBER: 146:485577
 TITLE: Brazing procedure for aluminum heat exchanger
 INVENTOR(S): Boger, Snjezana; Englert, Peter;
 Holler, Sebastian; Trautwein, Ingo; Tuerpe,
 Matthias
 PATENT ASSIGNEE(S): Behr GmbH & Co. K.-G., Germany
 SOURCE: Ger. Offen., 7pp.
 CODEN: GWXXBX
 DOCUMENT TYPE: Patent
 LANGUAGE: German
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
DE 102006053167	A1	20070510	DE 2006-102006053167	20061109
WO 2007054306	A1	20070518	WO 2006-EP10750	20061109

W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH,
 CN, CO, CR, CU, CZ, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE,

GH, GM, GT, HN, HR, HU, ID, IL, IN, IS, JP, KE, KG, KM, KN, KP,
 KR, KZ, LA, LC, LK, LR, LS, LT, LU, LV, LY, MA, MD, MG, MK, MN,
 MW, MX, MY, MZ, NA, NG, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RS,
 RU, SC, SD, SE, SG, SK, SL, SM, SV, SY, TJ, TM, TN, TR, TT, TZ,
 UA, UG, US, UZ, VC, VN, ZA, ZM, ZW
 RW: AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE,
 IS, IT, LT, LU, LV, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ,
 CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG, BW, GH,
 GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY,
 KG, KZ, MD, RU, TJ, TM

EP 1951468 A1 20080806 EP 2006-828982 20061109
 R: AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE,
 IS, IT, LI, LT, LU, LV, MC, NL, PL, PT, RO, SE, SI, SK, TR

PRIORITY APPLN. INFO.: DE 2005-102005053851IA 20051109
 DE 2005-102005054294IA 20051111
 WO 2006-EP10750 W 20061109

AB The invention concerns a brazing procedure for connecting different
 metallic base materials at least one brazed connection by plumb bob, which
 is melted by thermal energy. In order to simplify the manufacturing from
 heat-transfer agents to, at least a part for melt opens guide necessary
 thermal energy at the brazed connection by exotherms a reaction produced,
 in which a reactive substance existing at the brazed connection is
 involved.

L8 ANSWER 33 OF 80 HCAPLUS COPYRIGHT 2009 ACS on STN

ACCESSION NUMBER: 2007:409437 HCAPLUS
 DOCUMENT NUMBER: 146:361186
 TITLE: Heater arrangement for a motor vehicle
 INVENTOR(S): Fischle, Klaus; Gross, Dieter; Pfitzer,
 Matthias
 PATENT ASSIGNEE(S): Behr G.m.b.H & Co. K.-G., Germany
 SOURCE: Ger. Offen., 7pp.
 CODEN: GWXXBX
 DOCUMENT TYPE: Patent
 LANGUAGE: German
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
DE 102006045771	A1	20070412	DE 2006-102006045771	20060926

PRIORITY APPLN. INFO.: DE 2005-102005048159IA 20051006
 AB The invention concerns a heater arrangement (1), especially for a motor
 vehicle,
 containing ≥1 heating device (1), which is elec. heatable, where
 ≥1 heating device (1) contains a fleece (2) from elec. conductive
 material, which is for warming the air.

L8 ANSWER 34 OF 80 HCAPLUS COPYRIGHT 2009 ACS on STN

ACCESSION NUMBER: 2007:1083335 HCAPLUS
 DOCUMENT NUMBER: 147:411223
 TITLE: Equipment for manufacturing soldered components
 INVENTOR(S): Englert, Peter; Gorges, Roger; Jenseit,
 Andreas; Jilg, Ruediger; Kungl, Philipp; Pfitzer,
 Matthias
 PATENT ASSIGNEE(S): Behr G.m.b.H. & Co. K.-G., Germany
 SOURCE: Ger. Offen., 6pp.
 CODEN: GWXXBX
 DOCUMENT TYPE: Patent
 LANGUAGE: German
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
DE 102006013428	A1	20070927	DE 2006-102006013428	20060323

PRIORITY APPLN. INFO.:
 DE 2006-102006013428 20060323

AB The invention concerns a plant for manufacturing soldered components, in particular from heat-transfer agents, with an inert gas atmospheric In order to simplify the production of soldered components, the plant covers a protective gas cleaning mechanism, which contains at least one metal, at least an alloy and/or at least a metal compound, which react with unwanted inorg. protective gas components, like water, oxygen, carbon dioxide, or carbon monoxide, and/or with unwanted organic protective gas components, like binder impurities, oil compds. and their cracking products, under formation of solids.

L8 ANSWER 35 OF 80 HCAPLUS COPYRIGHT 2009 ACS on STN

ACCESSION NUMBER: 2007:354903 HCAPLUS
 DOCUMENT NUMBER: 146:382362
 TITLE: Heat exchanger pipe
 INVENTOR(S): Koch, Hans; Pfitzer, Matthias
 PATENT ASSIGNEE(S): Behr GmbH & Co. KG, Germany
 SOURCE: Ger. Offen., 5pp.
 CODEN: GWXXBX
 DOCUMENT TYPE: Patent
 LANGUAGE: German
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
DE 102005044292	A1	20070329	DE 2005-102005044292	20050916

PRIORITY APPLN. INFO.:
 DE 2005-102005044292 20050916

AB Heat exchanger pipe with an external wall closed in cross section and consisting of a deformable strip material. A part of the strip material is arranged in the inside of the closed cross section in such a way that several chamber result in the external wall. The disclosed heat exchanger pipe has a high firmness in spite of a low wall thickness.

REFERENCE COUNT: 5 THERE ARE 5 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L8 ANSWER 36 OF 80 EPFULL COPYRIGHT 2009 EPO/FIZ KA/LNU on STN

ACCESSION NUMBER: 2005:136336 EPFULL
 ENTRY DATE PATENT: 20061005
 ENTRY DATE PUBLICATION: 20070628
 UPDATE DATE PUBLICATION: 20080116
 DATA UPDATE DATE: 20080116
 DATA UPDATE WEEK: 200803
 TITLE (ENGLISH): COATING METHOD
 TITLE (FRENCH): PROCÉDE DE REVÊTEMENT
 TITLE (GERMAN): BESCHICHTUNGSVERFAHREN VON ERHITZTEN METALLISCHEN WERKSTÜCKEN
 INVENTOR(S): BOGER, Snjezana, Rechbergstrasse 4, 73734 Esslingen, DE; ENGLERT, Peter, Heideweg 7/1, 74177 Bad Friedrichshall, DE; HOLZMANN, Frank, Suedmaehrstrasse 21, 73312 Geislingen, DE; PFITZER, Matthias, Marktstrasse 18, 73779 Deizisau, DE; TRAUTWEIN, Ingo, Turmstrasse 45, 74321 Bietigheim-Bissingen, DE
 PATENT APPLICANT(S): Behr GmbH & Co. KG, Mauserstrasse 3, 70469 Stuttgart, DE

PATENT APPL. NUMBER: 7403720
 AGENT: Mantel, Berthold Friedrich, Behr GmbH & Co. KG
 Intellectual Property Mauserstrasse 3, D-70469
 Stuttgart, DE
 AGENT NUMBER: 9209901
 DOCUMENT TYPE: Patent
 LANGUAGE OF FILING: German
 LANGUAGE OF PUBL.: German
 LANGUAGE OF PROCEDURE: German
 LANGUAGE OF TITLE: German; English; French
 PATENT INFO TYPE: EPA2 Application published without search report
 PATENT INFORMATION:
 PATENT INFORMATION:

NUMBER	KIND	DATE
NUMBER	KIND	DATE
EP 1799882	A2	20070627

DESIGNATED STATES: WO 2006040079 20060420
 AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IS IT
 LI LT LU LV MC NL PL PT RO SE SI SK TR
 APPLICATION INFO.: EP 2005-794799 A 20051005
 WO 2005-EP10800 A 20051005
 PRIORITY INFO.: DE 2004-102004049107 A 20041007

L8 ANSWER 37 OF 80 HCAPLUS COPYRIGHT 2009 ACS on STN

ACCESSION NUMBER: 2008:193478 HCAPLUS

DOCUMENT NUMBER: 148:519074

TITLE: Eco-friendly coating for evaporators. Effective corrosion protection without Cr(VI)

AUTHOR(S): Mamber, Oliver; Eitel, Jochen; Boger, Snjezana
 CORPORATE SOURCE: Chemische Verfahrenstechnik, Bereich Motorkuehlung
 Vorentwicklung, Behr GmbH and Co. KG, Stuttgart, Germany

SOURCE: JOT, Journal fuer Oberflaechentechnik (2007), 47(12), 36-37

CODEN: JJOBE3; ISSN: 0940-8789

PUBLISHER: Vieweg Verlag/GWV Fachverlage GmbH

DOCUMENT TYPE: Journal

LANGUAGE: German

AB A corrosion-protective coating was developed by the Behr G.m.b.H.&Co.K.-G., Stuttgart, Germany. The so-called Behroxal technique is described here. It is used on the surfaces of evaporators in air conditioning plants for automobiles. The evaporators are made from Al. A passivation layer is generated on the Al surface by heating and spraying with the aqueous Behroxal solution. The formed coating is corrosion-resistant and

hydrophilic. The Behroxal solution does not contain heavy metal salts, especially

no Cr(VI). The microstructure of the coating was characterized by SEM. Corrosion tests were performed and compared with tests carried out for yellow chromated Nocolok-soldered tray evaporators. Nucleation prevention and odor control are advantages of the Behroxal layer.

L8 ANSWER 38 OF 80 HCAPLUS COPYRIGHT 2009 ACS on STN DUPLICATE 7

ACCESSION NUMBER: 2006:1006137 HCAPLUS

DOCUMENT NUMBER: 145:358844

TITLE: Manufacture of flat heat exchanger tubes with welding seam by cladding

INVENTOR(S): Koch, Hans; Pfitzer, Matthias

PATENT ASSIGNEE(S): Behr GmbH & Co. K.-G., Germany

SOURCE: Eur. Pat. Appl., 14pp.

DOCUMENT TYPE: CODEN: EPXXDW
 LANGUAGE: Patent
 FAMILY ACC. NUM. COUNT: 1 German
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
EP 1705446	A1	20060927	EP 2006-1929	20060131
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, HU, PL, SK, BA, HR, IS, YU				
DE 102005013777	A1	20060928	DE 2005-102005013777	20050322
PRIORITY APPLN. INFO.: DE 2005-102005013777A 20050322				
AB A flat tube for a heat exchanger is manufactured by cladding of a formed sheet strip with a welding seam to connect 2 parts of the sheet strip.				
REFERENCE COUNT: 6 THERE ARE 6 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT				

L8 ANSWER 39 OF 80 HCAPLUS COPYRIGHT 2009 ACS on STN
 ACCESSION NUMBER: 2006:1034392 HCAPLUS
 DOCUMENT NUMBER: 145:378399
 TITLE: Production of plastic parts and devices comprising such parts
 INVENTOR(S): Boger, Snjezana; Englert, Peter; Hinderberger, Hans-Dieter; Kaemmler, Georg; Trautwein, Ingo; Weber-Lanig, Thomas
 PATENT ASSIGNEE(S): Behr GmbH & Co. KG, Germany
 SOURCE: PCT Int. Appl., 22pp.
 CODEN: PIXXD2
 DOCUMENT TYPE: Patent
 LANGUAGE: German
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2006103013	A2	20061005	WO 2006-EP2598	20060321
WO 2006103013	A3	20070111		
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KM, KN, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, LY, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NG, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SM, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW				
RW: AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, LV, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GO, GW, ML, MR, NE, SN, TD, TG, BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM				
DE 102006013266	A1	20061012	DE 2006-102006013266	20060321
EP 1907196	A2	20080409	EP 2006-723599	20060321
R: AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LI, LT, LU, LV, MC, NL, PL, PT, RO, SE, SI, SK, TR				
JP 2008534320	T	20080828	JP 2008-503407	20060321
CN 101151143	A	20080326	CN 2006-80010580	20070930
US 20080281051	A1	20081113	US 2007-887432	20071128
PRIORITY APPLN. INFO.: DE 2005-102005015324A 20050401 WO 2006-EP2598 W 20060321				
AB In preparation of plastic parts, which is less expensive than the use of special plastics, the plastic is heated to a molding temperature above the m.p.,				

molding the plastic, adjusting the mold temperature to a conversion temperature, and
holding the molding at this temperature for a specified conversion time. A
com.

glass fiber-reinforced nylon 66 (Ultramid PA66, m.p. 260°) was heated to 290°, injected into a mold preheated to 85°, cooling the plastic, at least at its edges, to slightly above 100°, yielding a molding with high fractions of γ -crystal phase and of amorphous phase.

REFERENCE COUNT: 6 THERE ARE 6 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L8 ANSWER 40 OF 80 HCAPLUS COPYRIGHT 2009 ACS on STN
ACCESSION NUMBER: 2006:1091217 HCAPLUS
TITLE: Heat exchanger [Machine Translation].
INVENTOR(S): Boger, Snjezana; Englert, Peter;
Mamber, Oliver; Trautwein, Ingo
PATENT ASSIGNEE(S): Behr Gmbh & Co. KG, Germany
SOURCE: Ger. Offen.
CODEN: GWXXBX
DOCUMENT TYPE: Patent
LANGUAGE: German
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
DE 102005017920	A1	20061019	DE 2005-102005017920	20050418
EP 1715276	A2	20061025	EP 2006-7872	20060413
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, HU, PL, SK, BA, HR, IS, YU				

PRIORITY APPLN. INFO.: DE 2005-102005017920A 20050418

AB [Machine Translation of Descriptors]. The invention concerns a heat exchanger, in particular for a motor vehicle, with several pipes (31-37), in particular flat pipes, plates/discs or disks, which are flowed around by a first medium, for example by a cooling or a coolant, porous and by a second medium, in particular by air or exhaust gas, whereby between two pipes a heat transfer fabric/tissue is (1) provided. In order to increase the efficiency of the heat exchanger, the heat transfer fabric/tissue (1) several surface sections contains, which extend between two flow channel boundary surfaces in various directions.

REFERENCE COUNT: 8 THERE ARE 8 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L8 ANSWER 41 OF 80 HCAPLUS COPYRIGHT 2009 ACS on STN
ACCESSION NUMBER: 2006:342383 HCAPLUS
DOCUMENT NUMBER: 144:371656
TITLE: Coating process for metals and alloys
INVENTOR(S): Boger, Snjezana; Englert, Peter;
Holzmann, Frank; Pfitzer, Matthias;
Trautwein, Ingo
PATENT ASSIGNEE(S): Behr Gmbh & Co. KG, Germany
SOURCE: Ger. Offen., 8 pp.
CODEN: GWXXBX
DOCUMENT TYPE: Patent
LANGUAGE: German
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
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DE 102004049107 A1 20060413 DE 2004-102004049107 20041007
 WO 2006040079 A2 20060420 WO 2005-EP10800 20051005

W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KM, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, LY, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NG, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SM, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW

RW: AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, LV, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG, BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM

EP 1799882 A2 20070627 EP 2005-794799 20051005

R: AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LI, LT, LU, LV, MC, NL, PL, PT, RO, SE, SI, SK, TR

CN 101035926 A 20070912 CN 2005-80034312 20051005
 BR 2005016555 A 20080909 BR 2005-16555 20051005
 IN 2007CN01406 A 20070831 IN 2007-CN1406 20070405
 US 20080038471 A1 20080214 US 2007-576918 20070531

PRIORITY APPLN. INFO.: DE 2004-102004049107A 20041007
 WO 2005-EP10800 W 20051005

AB In the title process, useful in applying hydrophilic, adherent, and/or odorless coatings on metals and alloys, the coating material is applied to the metal surface, the surface is heated to convert the raw coating material to an especially permeable coating layer, and the surface is cooled.

REFERENCE COUNT: 9 THERE ARE 9 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L8 ANSWER 42 OF 80 HCAPLUS COPYRIGHT 2009 ACS on STN
 2006:238782 HCAPLUS
 ACCESSION NUMBER:
 TITLE: Procedure for the production of added workpieces [Machine Translation].
 INVENTOR(S): Boger, Snjezana; Englert, Peter; Pfitzer, Matthias; Trautwein, Ingo; Tuerpe, Matthias
 PATENT ASSIGNEE(S): Behr GmbH & Co. KG, Germany
 SOURCE: Ger. Offen.
 CODEN: GWXXBX
 DOCUMENT TYPE: Patent
 LANGUAGE: German
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
DE 102004034815	A1	20060316	DE 2004-102004034815	20040719
EP 1637266	A2	20060322	EP 2005-15583	20050719
EP 1637266	A3	20060405		

R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, HU, PL, SK, BA, HR, IS, YU

PRIORITY APPLN. INFO.: DE 2004-102004034815A 20040719

AB [Machine Translation of Descriptors]. The present invention concerns an improved procedure for adding from base materials to the production of a workpiece as well as the workpieces themselves manufactured by means of this procedure.

L8 ANSWER 43 OF 80 USPATFULL on STN
 2006:231204 USPATFULL
 TITLE: Heat exchanger and method for treating the surface of

INVENTOR(S): said heat exchanger
 Boger, Snjezana, Esslingen, GERMANY, FEDERAL
 REPUBLIC OF
 Englert, Peter, Bad Friedrichshall, GERMANY,
 FEDERAL REPUBLIC OF
 Fischle, Klaus, Tamm, GERMANY, FEDERAL REPUBLIC OF
 Mamber, Oliver, Stuttgart, GERMANY, FEDERAL REPUBLIC OF
 Sedlmeir, R Sabine, Mosbach, GERMANY, FEDERAL
 REPUBLIC OF

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 20060196644	A1	20060907
APPLICATION INFO.:	US 2004-551183	A1	20040308 (10)
	WO 2004-EP2336		20040308
			20050929 PCT 371 date

	NUMBER	DATE
PRIORITY INFORMATION:	DE 2003-10314775	20030331
DOCUMENT TYPE:	Utility	
FILE SEGMENT:	APPLICATION	
LEGAL REPRESENTATIVE:	FOLEY AND LARDNER LLP, SUITE 500, 3000 K STREET NW, WASHINGTON, DC, 20007, US	
NUMBER OF CLAIMS:	19	
EXEMPLARY CLAIM:	1	
NUMBER OF DRAWINGS:	1 Drawing Page(s)	
LINE COUNT:	250	
CAS INDEXING IS AVAILABLE FOR THIS PATENT.		
AB	The invention relates to a heat exchanger provided with a hydrophilic surface coating (12) comprising a gel produced by a sol-gel method.	

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L8 ANSWER 44 OF 80 USPATFULL ON STN
 ACCESSION NUMBER: 2006:225312 USPATFULL
 TITLE: Heat exchanger and method for treating the surface of
 said heat exchanger
 INVENTOR(S): Boger, Snjezana, Esslingen, GERMANY, FEDERAL
 REPUBLIC OF
 Englert, Peter, Friedrichshall, GERMANY,
 FEDERAL REPUBLIC OF
 Fischle, Klaus, Tamm, GERMANY, FEDERAL REPUBLIC OF
 Mamber, Oliver, Stuttgart, GERMANY, FEDERAL REPUBLIC OF
 Sedlmeir, R Sabine, Mosbach, GERMANY, FEDERAL REPUBLIC
 OF
 PATENT ASSIGNEE(S): BEHR GmbH & CO. KG (non-U.S. corporation)

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 20060191671	A1	20060831
APPLICATION INFO.:	US 2004-551181	A1	20040308 (10)
	WO 2004-EP2337		20040308
			20050929 PCT 371 date

	NUMBER	DATE
PRIORITY INFORMATION:	DE 2003-10314701	20030331
DOCUMENT TYPE:	Utility	
FILE SEGMENT:	APPLICATION	
LEGAL REPRESENTATIVE:	FOLEY AND LARDNER LLP, SUITE 500, 3000 K STREET NW, WASHINGTON, DC, 20007, US	

NUMBER OF CLAIMS: 17
EXEMPLARY CLAIM: 1
NUMBER OF DRAWINGS: 1 Drawing Page(s)
LINE COUNT: 247

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB The invention relates to a heat exchanger provided with, a hydrophilic surface (2) comprising nanoparticles (3), coated and/or grafted nanoparticles consisting of or containing oxides.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L8 ANSWER 45 OF 80 USPATFULL on STN
ACCESSION NUMBER: 2006:192074 USPATFULL
TITLE: Fluxing agent for soldering metal components
INVENTOR(S): Boger, Snjezana, Esslingen, GERMANY, FEDERAL
REPUBLIC OF
Englert, Peter, Bad Friedrichshall, GERMANY,
FEDERAL REPUBLIC OF
Pfitzer, Matthias, Aalen, GERMANY, FEDERAL
REPUBLIC OF
Sedlmeir, Sabine, Mosbach, GERMANY, FEDERAL
REPUBLIC OF
Trautwein, Ingo, Bietigheim-Bissingen,
GERMANY, FEDERAL REPUBLIC OF

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 20060162817	A1	20060727
APPLICATION INFO.:	US 2004-562154	A1	20040625 (10)
	WO 2004-EP6894		20040625
			20051223 PCT 371 date

	NUMBER	DATE
PRIORITY INFORMATION:	DE 2003-10328745	20030625
DOCUMENT TYPE:	Utility	
FILE SEGMENT:	APPLICATION	
LEGAL REPRESENTATIVE:	FOLEY AND LARDNER LLP, SUITE 500, 3000 K STREET NW, WASHINGTON, DC, 20007, US	
NUMBER OF CLAIMS:	14	
EXEMPLARY CLAIM:	1	
LINE COUNT:	349	

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB The aim of the invention is to provide a fluxing agent for soldering components, which creates one or more specific surface characteristics during the soldering process itself, thus obviating the need for the surface treatment process that is conventionally carried out after the soldering process. To achieve this, nanoparticles are added to a base substance.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L8 ANSWER 46 OF 80 USPATFULL on STN
ACCESSION NUMBER: 2006:140715 USPATFULL
TITLE: Method for producing pieces having a modified surface
INVENTOR(S): Boger, Snjezana, Esslingen, GERMANY, FEDERAL
REPUBLIC OF
Englert, Peter, Friedrichshall, GERMANY,
FEDERAL REPUBLIC OF
Pfizer, Mathias, Strasse, GERMANY, FEDERAL REPUBLIC OF
Trautwein, Ingo, Bietigheim-Bissingen,
GERMANY, FEDERAL REPUBLIC OF

Sedlmeir, Sabine, Mosbach, GERMANY, FEDERAL
 PATENT ASSIGNEE(S): REPUBLIC OF
 BEHR GmbH & CO. KG (non-U.S. corporation)

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 20060118216	A1	20060608
APPLICATION INFO.:	US 2004-551185	A1	20040317 (10)
	WO 2004-EP2751		20040317
			20050929 PCT 371 date

	NUMBER	DATE
PRIORITY INFORMATION:	DE 2003-10314700	20030331
DOCUMENT TYPE:	Utility	
FILE SEGMENT:	APPLICATION	
LEGAL REPRESENTATIVE:	FOLEY AND LARDNER LLP, SUITE 500, 3000 K STREET NW, WASHINGTON, DC, 20007, US	
NUMBER OF CLAIMS:	27	
EXEMPLARY CLAIM:	1	
LINE COUNT:	455	

AB The invention relates to a method for modifying piece surfaces
 consisting in bringing pieces into contact with at least one type of a
 modifying agent in such a way that the modification of the surface is
 carried out.

L8 ANSWER 47 OF 80 EPFULL COPYRIGHT 2009 EPO/FIZ KA/LNU on STN

ACCESSION NUMBER: 2005:29975 EPFULL
 ENTRY DATE PATENT: 20051123
 ENTRY DATE PUBLICATION: 20061129
 UPDATE DATE PUBLICATION: 20080409
 DATA UPDATE DATE: 20080409
 DATA UPDATE WEEK: 200815
 TITLE (ENGLISH): COATING METHOD
 TITLE (FRENCH): PROCEDE D'ENDUCTION
 TITLE (GERMAN): BESCHICHTUNGSVERFAHREN
 INVENTOR(S): BAALMANN, Alfred, Hermann-Loens-Weg 34, 27711
 Heilshorn, DE; BOGER, Snjezana, Rechbergstrasse 4,
 73734 Esslingen, DE; ENGLERT, Peter, Heideweg
 7/1, 74177 Bad Friedrichshall, DE; JILG, Ruediger,
 Tulpenstrasse 3, 71546 Aspach, DE; PFITZER,
 Matthias, Danziger Strasse 17, 73432 Aalen, DE
 PATENT APPLICANT(S): Behr GmbH & Co. KG, Mauserstrasse 3, 70469 Stuttgart,
 DE; Fraunhofer-Gesellschaft zur Foerderung der
 angewandten Forschung e.V., Hansastrasse 27c, 80686
 Muenchen, DE
 PATENT APPL. NUMBER: 459186; 211772
 AGENT: Liedtke, Markus, Liedtke & Partner Patentanwaelte
 Elisabethstrasse 10, 99096 Erfurt, DE
 AGENT NUMBER: 9213921
 DOCUMENT TYPE: Patent
 LANGUAGE OF FILING: German
 LANGUAGE OF PUBL.: German
 LANGUAGE OF PROCEDURE: German
 LANGUAGE OF TITLE: German; English; French
 PATENT INFO TYPE: EPat Application published with search report
 PATENT INFORMATION:
 PATENT INFORMATION:

NUMBER	KIND	DATE
NUMBER	KIND	DATE

	EP 1725342	A1	20061129
	WO 2005089960		20050929
DESIGNATED STATES:	AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IS IT		
	LI LT LU MC NL PL PT RO SE SI SK TR		
APPLICATION INFO.:	EP 2005-729127	A	20050317
	WO 2005-DE500	A	20050317
PRIORITY INFO.:	DE 2004-102004013306	A	20040317

L8 ANSWER 48 OF 80 EPFULL COPYRIGHT 2009 EPO/FIZ KA/LNU on STN

ACCESSION NUMBER: 2006:25828 EPFULL
ENTRY DATE PATENT: 20061025
ENTRY DATE PUBLICATION: 20061025
UPDATE DATE PUBLICAT.: 20061025
DATA UPDATE DATE: 20061025
DATA UPDATE WEEK: 200643
TITLE (ENGLISH): Heat exchanger
TITLE (FRENCH): Echangeur de chaleur
TITLE (GERMAN): Waermetauscher
INVENTOR(S): Boger, Snjezana, Dr., Rechbergstrasse 4, 73734
Esslingen, DE; Englert, Peter, Dipl. Ing.
(FH), Heideweg 7/1, 74177 Bad Friedrichshall, DE;
Mamber, Oliver, Dr., Thomas-Mann-Strasse 32, 70469
Stuttgart, DE; Trautwein, Ingo, Turmstrasse 45,
74321 Bietighelm-Bissingen, DE
PATENT APPLICANT(S): Behr GmbH & Co. KG, Mauserstrasse 3, 70469 Stuttgart,
DE
PATENT APPL. NUMBER: 459186
AGENT: Mantel, Berthold Friedrich, Behr GmbH & Co. KG
Intellectual Property, G-IP Mauserstrasse 3, 70469
Stuttgart, DE
AGENT NUMBER: 9211061
DOCUMENT TYPE: Patent
LANGUAGE OF FILING: German
LANGUAGE OF PUBL.: German
LANGUAGE OF PROCEDURE: German
LANGUAGE OF TITLE: German; English; French
PATENT INFO TYPE: EPA2 Application published without search report
PATENT INFORMATION:

	NUMBER	KIND	DATE
	EP 1715276	A2	20061025
DESIGNATED STATES:	AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IS IT		
	LI LT LU LV MC NL PL PT RO SE SI SK TR		
EXTENSION STATES:	AL BA HR MK YU		
APPLICATION INFO.:	EP 2006-7872	A	20060413
PRIORITY INFO.:	DE 2005-102005017920	A	20050418

ABEN

Heat exchanger for motor vehicle has heat transfer fabric with several surface sectors extending between two flow channel limiting surfaces in different directions

The heat exchanger for a motor vehicle has several flat tubes (31, 32, 33, 34, 35, 36, 37) with coolant and air or exhaust gas flowing through them. There is a heat transfer fabric (1) between pairs of tubes. The heat transfer fabric has several surface sectors extending between two flow channel limiting surfaces in different directions.

ABDE

Die Erfindung betrifft einen Waermetauscher, insbesondere fuer ein Kraftfahrzeug, mit mehreren Rohren (31-37), insbesondere Flachrohren, Platten oder Scheiben, die von einem ersten Medium, zum Beispiel von einem Kaelte- oder einem Kuehlmittel, durchstroemt und von einem zweiten Medium, insbesondere von Luft oder Abgas, umstroemt werden, wobei zwischen zwei Rohren ein Waermueubertragungsgewebe (1) angeordnet ist. Um den Wirkungsgrad des Waermetauschers zu erhoeihen, weist das Waermueubertragungsgewebe (1) mehrere Flaechenabschnitte auf, die sich zwischen zwei Stroemungskanalbegrenzungsflaechen in unterschiedliche Richtungen erstrecken.

(image, imgaf001.tif, drawing)

L8 ANSWER 49 OF 80 EPFULL COPYRIGHT 2009 EPO/FIZ KA/LNU on STN

ACCESSION NUMBER: 2004:72993 EPFULL
 ENTRY DATE PATENT: 20050309
 ENTRY DATE PUBLICATION: 20060524
 UPDATE DATE PUBLICATION: 20070516
 DATA UPDATE DATE: 20070516
 DATA UPDATE WEEK: 200720
 TITLE (ENGLISH): FLUXING AGENT FOR SOLDERING METAL COMPONENTS
 TITLE (FRENCH): AGENT FONDANT POUR SOUDER DES ELEMENTS METALLIQUES
 TITLE (GERMAN): FLUSSMITTEL ZUM LOETEN VON METALLBAUTEILEN
 INVENTOR(S): BOGER, Snjezana, Rechbergstrasse 4, 73734
 Esslingen, DE; ENGLERT, Peter, Heideweg 7/1,
 74177 Bad Friedrichshall, DE; PFITZER,
 Matthias, Danziger Strasse 17, 73432 Aalen, DE;
 SEDLMEIR, Sabine, Beihinger Strasse 26, 72285
 Pfalzgrafenweiler-Boesingen, DE; TRAUTWEIN,
 Ingo, Turmstrasse 45, 74321 Bietigheim, DE
 PATENT APPLICANT(S): Behr GmbH & Co. KG, Mauserstrasse 3, 70469 Stuttgart,
 DE
 PATENT APPL. NUMBER: 459186
 AGENT: Mantel, Berthold Friedrich, et al, Behr GmbH & Co. KG
 Intellectual Property, G-IP Mauserstrasse 3, 70469
 Stuttgart, DE
 AGENT NUMBER: 9211061
 DOCUMENT TYPE: Patent
 LANGUAGE OF FILING: German
 LANGUAGE OF PUBL.: German
 LANGUAGE OF PROCEDURE: German
 LANGUAGE OF TITLE: German; English; French
 PATENT INFO TYPE: EPA2 Application published without search report
 PATENT INFORMATION:
 PATENT INFORMATION:

NUMBER	KIND	DATE
NUMBER	KIND	DATE
EP 1658157	A2	20060524

WO 2004113014	20041229
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DESIGNATED STATES: AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IT LI
 LU MC NL PL PT RO SE SI SK TR
 APPLICATION INFO.: EP 2004-740305 A 20040625
 WO 2004-EP6894 A 20040625
 PRIORITY INFO.: DE 2003-10328745 A 20030625

L8 ANSWER 50 OF 80 EPFULL COPYRIGHT 2009 EPO/FIZ KA/LNU on STN

ACCESSION NUMBER: 2005:73559 EPFULL
 ENTRY DATE PATENT: 20060322
 ENTRY DATE PUBLICATION: 20060406

UPDATE DATE PUBLICAT.: 20060406
 DATA UPDATE DATE: 20060405
 DATA UPDATE WEEK: 200614
 TITLE (ENGLISH): Process for achieving a soldering connection of workpieces using a solder with nanoparticles
 TITLE (FRENCH): Procédé de brasage de pièces à l'aide d'une brasure contenant des nanoparticules
 TITLE (GERMAN): Verfahren zur Herstellung einer Lotverbindung zwischen Werkstuecken unter Verwendung eines Loetels mit Nanopartikeln
 INVENTOR(S): Boger, Snjezana, Dr., Rechbergstrasse 4, 73734 Esslingen, DE; Englert, Peter, Dipl.-Ing. (FH), Heideweg 7/1, 74177 Bad Friedrichshall, DE; Pfitzer, Matthias, Dipl.-Ing. (FH), Marktstrasse 18, 73779 Deizisau, DE; Trautwein, Ingo, Turmstrasse 45, 74321 Bietigheim-Bissingen, DE; Tuerpe, Matthias, Dr.-Ing., Ziegelstrasse 13, 71672 Marbach a. N., DE
 PATENT APPLICANT(S): Behr GmbH & Co. KG, Mauserstrasse 3, 70469 Stuttgart, DE
 PATENT APPL. NUMBER: 459186
 AGENT: Mantel, Berthold Friedrich, Behr GmbH & Co. KG
 Intellectual Property, G-IP Mauserstrasse 3, 70469 Stuttgart, DE
 AGENT NUMBER: 9211061
 DOCUMENT TYPE: Patent
 LANGUAGE OF FILING: German
 LANGUAGE OF PUBL.: German
 LANGUAGE OF PROCEDURE: German
 LANGUAGE OF TITLE: German; English; French
 PATENT INFO TYPE: EPA3 Separate publication of search report
 PATENT INFORMATION:

	NUMBER	KIND	DATE
DESIGNATED STATES:	EP 1637266	A3	20060405
EXTENSION STATES:	AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IS IT LI LT LU LV MC NL PL PT RO SE SI SK TR		
APPLICATION INFO.:	AL BA HR MK YU		
PRIORITY INFO.:	EP 2005-15583	A	20050719
	DE 2004-102004034815	A	20040719

ABEN

Process for joining a base material using a solder for forming a workpiece comprises applying dust particles of specified particle size to the base material and fusing forming a solder and obtaining the workpiece

Process for joining a base material using a solder for forming a workpiece comprises applying dust particles of particle size less than 1 μ m to the base material and fusing, forming a solder and obtaining the workpiece.

ABDE

Die vorliegende Erfindung betrifft ein verbessertes Verfahren zum Fuegen von Grundwerkstoffen zur Herstellung eines Werkstuecks sowie die mittels dieses Verfahrens hergestellten Werkstuecke selbst.

ABDE

Die vorliegende Erfindung betrifft ein verbessertes Verfahren zum Fuegen von Grundwerkstoffen zur Herstellung eines Werkstuecks sowie die mittels dieses Verfahrens hergestellten Werkstuecke selbst. Das Werkstueck wird durch ein Lot mit Partikeln gelotet, wobei die Partikelgroesse kleiner 1 Mikrometer ist.

L8 ANSWER 51 OF 80 EPFULL COPYRIGHT 2009 EPO/FIZ KA/LNU on STN

ACCESSION NUMBER: 2004:36882 EPFULL
ENTRY DATE PUBLICATION: 20060215
UPDATE DATE PUBLICATION: 20070926
DATA UPDATE DATE: 20070926
DATA UPDATE WEEK: 200739
TITLE (ENGLISH): HEAT EXCHANGER AND METHOD FOR TREATING THE SURFACE OF SAID HEAT EXCHANGER
TITLE (FRENCH): ECHANGEUR THERMIQUE ET PROCEDE DE TRAITEMENT DE SURFACE D'UN TEL ECHANGEUR THERMIQUE
TITLE (GERMAN): WAERMETAUSCHER UND VERFAHREN ZUR OBERFLAECHEBEHANDLUNG EINES SOLCHEN
INVENTOR(S): BOGER, Snjezana, Rechbergstrasse 4, 73734 Esslingen, DE; ENGLERT, Peter, Heideweg 7/1, 74177 Bad Friedrichshall, DE; FISCHLE, Klaus, Boeblingen Weg 22, 71732 Tamm, DE; MAMBER, Oliver, Thomas-Mann-Strasse 32, 70469 Stuttgart, DE; SEDLMEIR, Sabine, Kurfuerstenstrasse 71, 74821 Mosbach, DE
PATENT APPLICANT(S): Behr GmbH & Co. KG, Mauserstrasse 3, 70469 Stuttgart, DE
PATENT APPL. NUMBER: 7403720
AGENT: Grauel, Andreas, Behr GmbH & Co. KG Intellectual Property G-IP Mauserstrasse 3, 70469 Stuttgart, DE 94256
AGENT NUMBER:
DOCUMENT TYPE: Patent
LANGUAGE OF FILING: German
LANGUAGE OF PUBL.: German
LANGUAGE OF PROCEDURE: German
LANGUAGE OF TITLE: German; English; French
PATENT INFO TYPE: EPA2 Application published without search report
PATENT INFORMATION:
PATENT INFORMATION:

NUMBER	KIND	DATE
NUMBER	KIND	DATE

EP 1611407	A2	20060104
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WO 2004087338		20041014
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DESIGNATED STATES: AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IT LI

LU MC NL PL PT RO SE SI SK TR		
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APPLICATION INFO.: EP 2004-718303 A 20040308

WO 2004-EP2336	A	20040308
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PRIORITY INFO.: DE 2003-10314775 A 20030331

	A	20030331
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L8 ANSWER 52 OF 80 EPFULL COPYRIGHT 2009 EPO/FIZ KA/LNU on STN

ACCESSION NUMBER: 2004:37446 EPFULL
ENTRY DATE PUBLICATION: 20060215
UPDATE DATE PUBLICATION: 20070328
DATA UPDATE DATE: 20070328
DATA UPDATE WEEK: 200713
TITLE (ENGLISH): METHOD FOR PRODUCING PIECES HAVING A MODIFIED SURFACE
TITLE (FRENCH): PROCEDE DE FABRICATION DE PIECES MODIFIEES EN SURFACE
TITLE (GERMAN): VERFAHREN ZUR HERSTELLUNG OBERFLAECHEMODIFIZIERTER WERKSTUECKE

INVENTOR(S): BOGER, Snjezana, Rechbergstrasse 4, 73734 Esslingen, DE; ENGLERT, Peter, Heideweg 7/1, 74177 Bad Friedrichshall, DE; PFITZER, Mathias, Danzinger Strasse 17, 73421 Aalen, DE;

TRAUTWEIN, Ingo, Turmstrasse 45, 74321
Bietigheim-Bissingen, DE; SEDLMEIR, Sabine,
Beihinger Strasse 26, 72285
Pfalzgrafenweiler-Boesingen, DE

PATENT APPLICANT(S): Behr GmbH & Co. KG, Mauserstrasse 3, 70469 Stuttgart,
DE

PATENT APPL. NUMBER: 7403720

DOCUMENT TYPE: Patent

LANGUAGE OF FILING: German

LANGUAGE OF PUBL.: German

LANGUAGE OF PROCEDURE: German

LANGUAGE OF TITLE: German; English; French

PATENT INFO TYPE: EPA2 Application published without search report

PATENT INFORMATION:

NUMBER	KIND	DATE
NUMBER	KIND	DATE

EP 1611266	A2	20060104
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WO 2004087993		20041014
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DESIGNATED STATES: AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IT LI

LU MC NL PL PT RO SE SI SK TR

APPLICATION INFO.: EP 2004-739066 A 20040317

WO 2004-EF2751 A 20040317

PRIORITY INFO.: DE 2003-10314700 A 20030331

L8 ANSWER 53 OF 80 EPFULL COPYRIGHT 2009 EPO/FIZ KA/LNU on STN

ACCESSION NUMBER: 2004:36883 EPFULL

ENTRY DATE PUBLICATION: 20060215

UPDATE DATE PUBLICAT.: 20080227

DATA UPDATE DATE: 20080227

DATA UPDATE WEEK: 200809

TITLE (ENGLISH): HEAT EXCHANGER AND METHOD FOR TREATING THE SURFACE OF
SAID HEAT EXCHANGER

TITLE (FRENCH): ECHANGEUR THERMIQUE ET PROCEDE DE TRAITEMENT DE SURFACE
D'UN TEL ECHANGEUR THERMIQUE

TITLE (GERMAN): WAERMETAUSCHER UND VERFAHREN ZUR OBERFLAeCHENBEHANDLUNG
EINES SOLCHEN

INVENTOR(S): BOGER, Snjezana, Rechbergstrasse 4, 73734
Esslingen, DE; ENGLERT, Peter, Heideweg 7/1,
74177 Bad Friedrichshall, DE; FISCHLE, Klaus,
Boeblinger Weg 22, 71732 Tamm, DE; MAMBER, Oliver,
Thomas-Mann-Strasse 32, 70469 Stuttgart, DE;
SEDLMEIR, Sabine, Kurfuerstenstrasse 71, 74821
Mosbach, DE

PATENT APPLICANT(S): Behr GmbH & Co. KG, Mauserstrasse 3, 70469 Stuttgart,
DE

PATENT APPL. NUMBER: 459186

DOCUMENT TYPE: Patent

LANGUAGE OF FILING: German

LANGUAGE OF PUBL.: German

LANGUAGE OF PROCEDURE: German

LANGUAGE OF TITLE: German; English; French

PATENT INFO TYPE: EPA1 Application published with search report

PATENT INFORMATION:

NUMBER	KIND	DATE
NUMBER	KIND	DATE

EP 1610911	A1	20060104
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DESIGNATED STATES: WO 2004087339 20041014
 AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IT LI
 LU MC NL PL PT RO SE SI SK TR
 APPLICATION INFO.: EP 2004-718294 A 20040308
 WO 2004-EP2337 A 20040308
 PRIORITY INFO.: DE 2003-10314701 A 20030331

L8 ANSWER 54 OF 80 EPFULL COPYRIGHT 2009 EPO/FIZ KA/LNU on STN

ACCESSION NUMBER: 2003:41526 EPFULL
 ENTRY DATE PUBLICATION: 20060301
 UPDATE DATE PUBLICATION: 20090114
 DATA UPDATE DATE: 20090114
 DATA UPDATE WEEK: 200903
 TITLE (ENGLISH): HEAT EXCHANGER PROVIDED FOR HEATING PURPOSES AND
 COMPRISING AN ELECTRIC HEATING DEVICE
 TITLE (FRENCH): DISPOSITIF DE TRANSMISSION DE CHALEUR UTILISE A DES
 FINS DE CHAUFFAGE ET COMPRENANT UN SYSTEME ELECTRIQUE
 CHAUFFANT
 TITLE (GERMAN): ZU HEIZZWECKEN DIENENDER WAERMEUEBERTRAGER MIT
 ELEKTRISCHER HEIZEINRICHTUNG
 INVENTOR(S): ENGLERT, Peter, Heideweg 7/1, 74177 Bad
 Friedrichshall, DE; KOHL, Michael, Muehltorstrasse
 59, 74348 Lauffen, DE; TRAUB, Matthias,
 Friederica-Kocher-Strasse 32, 70825
 Kornthal-Muenchingen, DE
 PATENT APPLICANT(S): Behr GmbH & Co. KG, Mauserstrasse 3, 70469 Stuttgart,
 DE
 PATENT APPL. NUMBER: 4335290
 AGENT: Grauel, Andreas, BEHR GmbH & Co. KG Intellectual
 Property G-IP Mauserstrasse 3, 70469 Stuttgart, DE
 94254
 AGENT NUMBER: Patent
 DOCUMENT TYPE: German
 LANGUAGE OF FILING: German
 LANGUAGE OF PUBL.: German
 LANGUAGE OF PROCEDURE: German
 LANGUAGE OF TITLE: German; English; French
 PATENT INFO TYPE: EPBI Granted patent
 PATENT INFORMATION:
 PATENT INFORMATION:

NUMBER	KIND	DATE
NUMBER	KIND	DATE

EP 1497594	B1	20060222
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WO 2003088712 20031023
 AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IT LI
 LU MC NL PT RO SE SI SK TR
 APPLICATION INFO.: EP 2003-732277 A 20030411
 WO 2003-EP3770 A 20030411
 PRIORITY INFO.: DE 2002-10216157 A 20020412
 CITED PATENT LIT.: DE 19922668 A
 FR 2793546 A

L8 ANSWER 55 OF 80 HCAPLUS COPYRIGHT 2009 ACS on STN
 ACCESSION NUMBER: 2005:1042143 HCAPLUS
 DOCUMENT NUMBER: 143:348772
 TITLE: Method for corrosion-resistant multi-layered coatings
 production.
 INVENTOR(S): Baalmann, Alfred; Boger, Snjezana;
 Englert, Peter; Jilg, Ruediger; Pfitzer,

PATENT ASSIGNEE(S): Matthias
Behr G.m.b.H. & Co. K.-G., Germany;
Fraunhofer-Gesellschaft zur Foerderung der Angewandten
Forschung e.V.
SOURCE: PCT Int. Appl., 19 pp.
CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: German
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE			
WO 2005089960	A1	20050929	WO 2005-DE500	20050317			
W:	AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SM, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW						
RW:	BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG						
DE 102004013306	A1	20051006	DE 2004-102004013306	20040317			
EP 1725342	A1	20061129	EP 2005-729127	20050317			
R:	AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LI, LT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR						
JP 2007529624	T	20071025	JP 2007-503190	20050317			
PRIORITY APPLN. INFO.:			DE 2004-102004013306A	20040317			
			WO 2005-DE500	W 20050317			
AB	A plasma single-step method for coating of metal (aluminum) surfaces in heat exchangers for an air conditioning systems in cars with corrosion-resistant and functional multi-layered coating (containing ≥ 1 corrosion-resistant hydrophobic, ≥ 1 antimicrobial, ≥ 1 hydrophilic and ≥ 1 catalytic layer) materials comprises a low-temperature plasma polymerization of aerosol-deposited organometallic compds. at 10 - 1,000 mbar and 15 - 700°. A typical example is plasma treating an Al surface sprayed with a mixture of hexamethylsiloxane and oxygen.						
REFERENCE COUNT:	6	THERE ARE 6 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT					
L8 ANSWER 56 OF 80	USPATFULL ON STN						
ACCESSION NUMBER:	2005:201913 USPATFULL						
TITLE:	Heat exchanger provided for heating purposes and comprising an electric heating device						
INVENTOR(S):	Englert, Peter, Bad Friedrichshall, GERMANY, FEDERAL REPUBLIC OF Kohl, Michael, Biefjheim, GERMANY, FEDERAL REPUBLIC OF Traub, Matthias, Korntal-Munchingen, GERMANY, FEDERAL REPUBLIC OF						
PATENT ASSIGNEE(S):	BEHR GmbH & CO. KG (non-U.S. corporation)						
	NUMBER	KIND	DATE				
PATENT INFORMATION:	US 20050175327	A1	20050811				
APPLICATION INFO.:	US 2003-510681	A1	20030411	(10)			
	WO 2003-EP3770		20030411				
	NUMBER	DATE					

PRIORITY INFORMATION: DE 2002-10216157 20020412
DOCUMENT TYPE: Utility
FILE SEGMENT: APPLICATION
LEGAL REPRESENTATIVE: FOLEY AND LARDNER, SUITE 500, 3000 K STREET NW,
WASHINGTON, DC, 20007, US
NUMBER OF CLAIMS: 11
EXEMPLARY CLAIM: 1
NUMBER OF DRAWINGS: 3 Drawing Page(s)
LINE COUNT: 391
AB The invention relates to a heat exchanger provided for heating purposes, particularly for a motor vehicle, comprising: a number of parallel pipes, at least one electric heating device (4), which is mounted each time between two adjacent pipes, and comprising a number of fin elements (5) situated between each pair of adjacent pipes and between each heating device (4) and the pipes adjacent thereto. In order to be able to better control the power absorption of the heating devices (4), each heating device (4) comprises two separately controllable heating sections (6, 7). One heating section (6) is placed on one side (8) of the heating device (4) facing one adjacent pipe, whereas the other heating section (7) is placed on an opposite side (9) of the heating device (4) facing the other adjacent pipe.

L8 ANSWER 57 OF 80 HCAPLUS COPYRIGHT 2009 ACS on STN
ACCESSION NUMBER: 2005:584922 HCAPLUS
DOCUMENT NUMBER: 144:109599
TITLE: Online measurement of amorphous orientation in melt spun polymer fibers
AUTHOR(S): Gutmann, Rainer; Boger, Snjezana
CORPORATE SOURCE: Institut fuer Textilchemie und Chemiefasern, Denkendorf, Germany
SOURCE: Chemical Fibers International (2005), 55(2), 107-108, 110-111
CODEN: CFINF7; ISSN: 1434-3584
PUBLISHER: IBP International Business Press Publishers
DOCUMENT TYPE: Journal
LANGUAGE: English
AB A new device that based on the polarized fluorescence of highly anisotropic chain-intrinsic moieties or extrinsic mols. incorporated in non-fluorescent polymers (e.g., poly(ethylene terephthalate), polyamide 6 and 66, and polypropylene) to measure the amorphous orientation in fibers is described and its operation is exemplified with PET fibers. The device is a versatile tool of high accuracy that allows to get informations about structure formation at yarn production and processing and helps to adjust and to optimize the set-up of spin lines or to achieve information about fiber properties at a very early stage of production

L8 ANSWER 58 OF 80 HCAPLUS COPYRIGHT 2009 ACS on STN DUPLICATE 8
ACCESSION NUMBER: 2004:711457 HCAPLUS
TITLE: Apparatus and process for applying flux for brazing of parts
INVENTOR(S): Englert, Peter; Trautwein, Ingo;
Ferrer, Joan
PATENT ASSIGNEE(S): Behr GmbH & Co., Germany; Frape Behr S.A.
SOURCE: Eur. Pat. Appl.
CODEN: EPXXDW
DOCUMENT TYPE: Patent
LANGUAGE: German
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
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EP 1452260 A1 20040901 EP 2003-4158 20030226
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT,
IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, HU, SK
WO 2004076115 A1 20040910 WO 2003-EP12763 20031114
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN,
CO, CR, CU, CZ, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM,
HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS,
LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, OM, PH, PL,
PT, RO, RU, SD, SE, SG, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG,
US, UZ, VN, YU, ZA, ZM, ZW
RW: BW, GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ,
BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE,
ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK,
TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG
AU 2003296576 A1 20040917 AU 2003-296576 20031114
BR 2003018144 A 20060207 BR 2003-18144 20031114
CN 1753753 A 20060329 CN 2003-80109973 20031114
JP 2006513865 T 20060427 JP 2004-568661 20031114
ZA 2005005705 A 20060426 ZA 2005-5705 20050715
IN 2005CN02023 A 20070831 IN 2005-CN2023 20050824
PRIORITY APPLN. INFO.: EP 2003-4158 A 20030226
WO 2003-EP12763 W 20031114

AB Unavailable

L8 ANSWER 59 OF 80 USPATFULL on STN DUPLICATE 9
ACCESSION NUMBER: 2004:212633 USPATFULL
TITLE: Soldering flux for soldering aluminium
INVENTOR(S): Englert, Peter, Bad Friedrichshall, GERMANY,
FEDERAL REPUBLIC OF
Heeb, Wolfgang, Schorndorf, GERMANY, FEDERAL REPUBLIC
OF
Knodler, Wolfgang, Waiblingen, GERMANY, FEDERAL
REPUBLIC OF

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 20040163734	A1	20040826
	US 7481894	B2	20090127
APPLICATION INFO.:	US 2004-483338	A1	20040112 (10)
	WO 2003-EP1849		20030224

	NUMBER	DATE
PRIORITY INFORMATION:	DE 2002-10210133	20020308
DOCUMENT TYPE:	Utility	
FILE SEGMENT:	APPLICATION	
LEGAL REPRESENTATIVE:	Richard L Schwaab, Foley & Lardner, Suite 500, 3000 K Street NW, Washington, DC, 20007-5109	

NUMBER OF CLAIMS: 10
EXEMPLARY CLAIM: 1
LINE COUNT: 149

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB The invention relates to a soldering flux based on potassium
fluoroaluminates, wherein the zirconium fluoride and/or titanium
fluoride is added to the soldering flux. The invention also relates to a
corresponding soldering method.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L8 ANSWER 60 OF 80 HCAPLUS COPYRIGHT 2009 ACS on STN
ACCESSION NUMBER: 2004:1156544 HCAPLUS

DOCUMENT NUMBER: 142:78476
 TITLE: Soldering flux for soldering of metal components
 INVENTOR(S): Boger, Snjezana; Englert, Peter;
 Pfitzer, Matthias; Sedlmeir, Sabine;
 Trautwein, Ingo
 PATENT ASSIGNEE(S): Behr GmbH & Co. Kg, Germany
 SOURCE: PCT Int. Appl., 15 pp.
 CODEN: PIXXD2
 DOCUMENT TYPE: Patent
 LANGUAGE: German
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2004113014	A2	20041229	WO 2004-EP6894	20040625
WO 2004113014	A3	20050602		
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW, RW: BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				
DE 102004031034	A1	20050210	DE 2004-102004031034	20040625
EP 1658157	A2	20060524	EP 2004-740305	20040625
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, FI, RO, CY, TR, BG, CZ, EE, HU, PL, SK				
CN 1809440	A	20060726	CN 2004-80017539	20040625
US 20060162817	A1	20060727	US 2005-562154	20051223
PRIORITY APPLN. INFO.:			DE 2003-10328745	A 20030625
			WO 2004-EP6894	W 20040625

AB A flux is provided for soldering/brazing of metal components. which creates one or more sp. surface characteristics during the soldering process itself, thus obviating the need for the surface treatment process that is conventionally carried out after the soldering process. Nanoparticles 0.01-10 volume% (preferably 0.1-1%) are added to the flux to produce such surface characteristics during the soldering/brazing process so that the conventional surface after-treatment can be eliminated. The flux is especially suitable for brazing of Al and Al alloy heat exchangers for automobiles.

REFERENCE COUNT: 5 THERE ARE 5 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L8 ANSWER 61 OF 80 HCAPLUS COPYRIGHT 2009 ACS on STN

ACCESSION NUMBER: 2004:857486 HCAPLUS
 DOCUMENT NUMBER: 141:333695
 TITLE: Manufacture of an improved water repellent automotive heat exchanger
 INVENTOR(S): Boger, Snjezana; Englert, Peter;
 Fischle, Klaus; Mamber, Oliver; Sedlmeir, Sabine
 PATENT ASSIGNEE(S): Behr GmbH & Co. Kg, Germany
 SOURCE: PCT Int. Appl., 18 pp.
 CODEN: PIXXD2
 DOCUMENT TYPE: Patent
 LANGUAGE: German
 FAMILY ACC. NUM. COUNT: 2

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE			
WO 2004087339	A1	20041014	WO 2004-EP2337	20040308			
W:	AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW						
RW:	BW, GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG						
EP 1610911	A1	20060104	EP 2004-718294	20040308			
R:	AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, HU, PL, SK						
CN 1767906	A	20060503	CN 2004-80008966	20040308			
JP 2006522304	T	20060928	JP 2006-504577	20040308			
US 20060191671	A1	20060831	US 2005-551181	20050929			
PRIORITY APPLN. INFO.:			DE 2003-10314701	A 20030331			
			WO 2004-EP2337	W 20040308			
AB	The inventive heat exchanger is provided with a hydrophilic surface comprising (coated and/or graft) nanoparticles, consisting of or containing oxides. Preferably, the nanoparticles, which are optionally treated in a sol-gel procedure, are provided with antimicrobials.						
REFERENCE COUNT:	6	THERE ARE 6 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT					
L8 ANSWER 62 OF 80	HCAPLUS COPYRIGHT 2009 ACS on SIN						
ACCESSION NUMBER:	2004:857485 HCAPLUS						
DOCUMENT NUMBER:	141:334056						
TITLE:	Heat exchanger and method for treatment of its surface						
INVENTOR(S):	Boger, Snjezana; Englert, Peter; Fischle, Klaus; Mamber, Oliver; Sedlmeir, Sabine						
PATENT ASSIGNEE(S):	Behr GmbH & Co. Kg, Germany						
SOURCE:	PCT Int. Appl., 13 pp.						
	CODEN: PIXXD2						
DOCUMENT TYPE:	Patent						
LANGUAGE:	German						
FAMILY ACC. NUM. COUNT:	2						
PATENT INFORMATION:							

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2004087338	A2	20041014	WO 2004-EP2336	20040308
WO 2004087338	A3	20050609		
W:	AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW			
RW:	BW, GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG			
EP 1611407	A2	20060104	EP 2004-718303	20040308

R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT,
 IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, HU, PL, SK
 CN 1768245 A 20060503 CN 2004-80008964 20040308
 JP 2006522303 T 20060928 JP 2006-554576 20040308
 US 20060196644 A1 20060907 US 2005-551183 20050929
 PRIORITY APPLN. INFO.: DE 2003-10314775 A 20030331
 WO 2004-EP2336 W 20040308

AB A heat exchanger is provided with a hydrophilic surface coating. The coating contains a gel which is produced by a sol-gel process. The sol contains alkoxy compds. of Group III elements, Group IV elements, and/or transition metals. The coating decreases collection of dust and dirt and prevents growth of microorganisms on the heat exchanger surfaces.

REFERENCE COUNT: 11 THERE ARE 11 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L8 ANSWER 63 OF 80 HCAPLUS COPYRIGHT 2009 ACS on STN

ACCESSION NUMBER: 2004:841683 HCAPLUS
 DOCUMENT NUMBER: 141:334049
 TITLE: Heat exchanger and method for treatment of its surface
 INVENTOR(S): Boger, Snjezana; Englert, Peter;
 Fischle, Klaus; Mamber, Oliver; Sedlmeir,
 Sabine
 PATENT ASSIGNEE(S): Behr GmbH & Co. KG, Germany
 SOURCE: Ger. Offen., 6 pp.
 CODEN: GWXXBX
 DOCUMENT TYPE: Patent
 LANGUAGE: German
 FAMILY ACC. NUM. COUNT: 2
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
DE 102004011545	A1	20041014	DE 2004-102004011545	20040308
CN 1767906	A	20060503	CN 2004-80008966	20040308
PRIORITY APPLN. INFO.:			DE 2003-10314701	IA 20030331

AB A heat exchanger is provided with a hydrophilic surface coating. The surface coating contains nanoparticles, coated nanoparticles, and/or grafted nanoparticles with or from oxides. The coating is produced by a sol-gel process. The sol contains alkoxy compds. of Group III elements, Group IV elements, and/or transition metals. The coating decreases collection of dust and dirt and prevents growth of microorganisms on the heat exchanger surfaces.

L8 ANSWER 64 OF 80 HCAPLUS COPYRIGHT 2009 ACS on STN

ACCESSION NUMBER: 2004:841682 HCAPLUS
 DOCUMENT NUMBER: 141:334048
 TITLE: Heat exchanger and method for treatment of its surface
 INVENTOR(S): Boger, Snjezana; Englert, Peter;
 Fischle, Klaus; Mamber, Oliver; Sedlmeir,
 Sabine
 PATENT ASSIGNEE(S): Behr GmbH & Co. KG, Germany
 SOURCE: Ger. Offen., 6 pp.
 CODEN: GWXXBX
 DOCUMENT TYPE: Patent
 LANGUAGE: German
 FAMILY ACC. NUM. COUNT: 2
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
DE 102004011544	A1	20041014	DE 2004-102004011544	20040308
CN 1768245	A	20060503	CN 2004-80008964	20040308

PRIORITY APPLN. INFO.: DE 2003-10314775 IA 20030331
 AB A heat exchanger is provided with a hydrophilic surface coating. The coating contains a gel which is produced by a sol-gel process. The sol contains alkoxy compds. of Group III elements, Group IV elements, and/or transition metals. The coating decreases collection of dust and dirt and prevents growth of microorganisms on the heat exchanger surfaces.

L8 ANSWER 65 OF 80 HCAPLUS COPYRIGHT 2009 ACS on STN
 ACCESSION NUMBER: 2004:719847 HCAPLUS
 DOCUMENT NUMBER: 141:226627
 TITLE: Plastic part with improved characteristics for an air conditioning system or a charge air circulation for a motor vehicle and its manufacture
 INVENTOR(S): Kaspar, Martin; Kaemmler, Georg; Boger, Snjezana
 PATENT ASSIGNEE(S): Behr GmbH & Co. KG, Germany
 SOURCE: Ger. Offen., 5 pp.
 CODEN: GWXXBX
 DOCUMENT TYPE: Patent
 LANGUAGE: German
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
DE 102004007892	A1	20040902	DE 2004-102004007892	20040217

PRIORITY APPLN. INFO.: DE 2003-10307400 IA 20030220
 AB The inventive plastic product, especially a sealing element, made of glass fiber-reinforced plastics such as PA, PPA, PPS, EPDM or HNBR is surficially halogenated, especially fluorinated, after its manufacture so that at least a water-repellent, antibacterial surface is obtained.

L8 ANSWER 66 OF 80 HCAPLUS COPYRIGHT 2009 ACS on STN
 ACCESSION NUMBER: 2004:837205 HCAPLUS
 TITLE: Procedure for the production of surface-modified workpieces [Machine Translation].
 INVENTOR(S): Boger, Snjezana; Englert, Peter; Pfitzer, Mathias; Sedlmeir, Sabine; Trautwein, Ingo
 PATENT ASSIGNEE(S): Behr GmbH & Co. Kg, Germany
 SOURCE: Ger. Offen.
 CODEN: GWXXBX
 DOCUMENT TYPE: Patent
 LANGUAGE: German
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
DE 10314700	A1	20041014	DE 2003-10314700	20030331
WO 2004087993	A2	20041014	WO 2004-EP2751	20040317
WO 2004087993	A3	20050224		

W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW
 RW: BW, GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PL, PT, RO, SE, SI,

SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN,
 TD, TG

EP 1611266	A2	20060104	EP 2004-739066	20040317
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT,				
IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, HU, PL, SK				
BR 2004008868	A	20060411	BR 2004-8868	20040317
CN 1768163	A	20060503	CN 2004-80008965	20040317
JP 2006522218	T	20060928	JP 2006-504710	20040317
US 20060118216	A1	20060608	US 2005-551185	20050929
IN 2005CN02473	A	20070720	IN 2005-CN2473	20050930

PRIORITY APPLN. INFO.:
 DE 2003-10314700 A 20030331
 WO 2004-EP2751 W 20040317

AB [Machine Translation of Descriptors]. The present invention concerns
 procedures for the surface modification of workpieces, whereby the
 workpieces are brought in such a way with at least a modifying
 medium/means in contact that a surface modification arises.

REFERENCE COUNT: 7 THERE ARE 7 CITED REFERENCES AVAILABLE FOR THIS
 RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L8 ANSWER 67 OF 80 EPFULL COPYRIGHT 2009 EPO/FIZ KA/LNU ON STN

ACCESSION NUMBER: 2003:144164 EPFULL
 UPDATE DATE PUBLICAT.: 20060406
 DATA UPDATE DATE: 20060405
 DATA UPDATE WEEK: 200614
 TITLE (ENGLISH): DEVICE AND METHOD FOR APPLYING A FLOW AGENT FOR HARD
 SOLDERING OF PARTS
 TITLE (FRENCH): DISPOSITIF ET PROCEDE POUR APPLIQUER UN FLUX POUR LE
 BRASAGE FORT DE PIECES
 TITLE (GERMAN): VORRICHTUNG UND VERFAHREN ZUM AUFBRINGEN EINES
 FLUSSMITTELS FÜr DAS HARTL TEN VON TEILEN
 INVENTOR(S): ENGLERT, Peter, Landhausstrasse 5, 74177 Bad
 Friedrichshall, DE; TRAUTWEIN, Ingo,
 Turmstrasse 45, 74321 Bietigheim-Bissingen, DE;
 FERRER, Joan, Paseo Torras I Bages No. 11-60, 08030
 Barcelona, ES; SABETTA, Vincenzo, c/20, No. 2, Torre C,
 08860 Castelldefels, ES
 PATENT APPLICANT(S): Behr GmbH & Co., Mauserstrasse 3, 70469 Stuttgart, DE;
 Frapre Behr S.A., P.I. Zona Franca, Sector C, Calle D,
 33-35, 08040 Barcelona, ES
 PATENT APPL. NUMBER: 459182; 4235661
 DOCUMENT TYPE: Patent
 LANGUAGE OF FILING: German
 LANGUAGE OF PUBL.: German
 LANGUAGE OF PROCEDURE: German
 LANGUAGE OF TITLE: German; English; French
 PATENT INFO TYPE: WOAI International application published with search
 report

PATENT INFORMATION:

	NUMBER	KIND	DATE
	WO 2004076115	A1	20040910
APPLICATION INFO.:	EP 2003-816033	A	20031114
	WO 2003-EP12763	A	20031114
PRIORITY INFO.:	EP 2003-4158	A	20030226

L8 ANSWER 68 OF 80 EPFULL COPYRIGHT 2009 EPO/FIZ KA/LNU ON STN

ACCESSION NUMBER: 2003:26772 EPFULL
 ENTRY DATE PUBLICATION: 20041222
 UPDATE DATE PUBLICAT.: 20050406
 DATA UPDATE DATE: 20050406

DATA UPDATE WEEK: 200514
 TITLE (ENGLISH): SOLDERING FLUX FOR SOLDERING ALUMINIUM
 TITLE (FRENCH): FONDANT POUR LE SOUDAGE D'ALUMINIUM
 TITLE (GERMAN): FLUSSMITTEL ZUM LÖTEN VON ALUMINIUM
 INVENTOR(S): ENGLERT, Peter, Heideweg 7/1, 74177 Bad
 Friedrichshall, DE; HEEB, Wolfgang,
 Freiburgstrasse 5, 73614 Schorndorf, DE; KNOEDLER,
 Wolfgang, Herderweg 9, 71332 Waiblingen, DE
 PATENT APPLICANT(S): Behr GmbH & Co. KG, Mauserstrasse 3, 70469 Stuttgart,
 DE
 PATENT APPL. NUMBER: 4335290
 AGENT: Grauel, Andreas, Dr., Behr GmbH & Co. KG Intellectual
 Property Mauserstrasse 3, 70469 Stuttgart, DE
 AGENT NUMBER: 94255
 DOCUMENT TYPE: Patent
 LANGUAGE OF FILING: German
 LANGUAGE OF PUBL.: German
 LANGUAGE OF PROCEDURE: German
 LANGUAGE OF TITLE: German; English; French
 PATENT INFO TYPE: EPO Application published with search report
 PATENT INFORMATION:
 PATENT INFORMATION:

NUMBER	KIND	DATE
NUMBER	KIND	DATE
EP 1485227	A1	20041215

DESIGNATED STATES: WO 2003076123 20030918
 AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IT LI
 LU MC NL PT SE SI SK TR
 EXTENSION STATES: AL LT LV MK RO
 APPLICATION INFO.: EP 2003-743817 A 20030224
 WO 2003-EP1849 A 20030224
 PRIORITY INFO.: DE 2002-10210133 A 20020308

L8 ANSWER 69 OF 80 EPO FULL COPYRIGHT 2009 EPO/FIZ KA/LNU ON STN

ACCESSION NUMBER: 2003:5755 EPO FULL
 DATA UPDATE DATE: 20040811
 DATA UPDATE WEEK: 200433
 TITLE (ENGLISH): Aluminum brazing process
 TITLE (FRENCH): Procédé de brasage d'aluminium
 TITLE (GERMAN): Verfahren zum Löten von Aluminium
 INVENTOR(S): Englert, Peter, Dipl.-Ing. (FH), Landhausstrasse
 5, 74177 Bad Friedrichshall, DE; Jilg, Ruediger,
 Tulpenstrasse 3, 71546 Aspach, DE; Trautwein,
 Ingo, Turmstrasse 45, 74321 Bietigheim-Bissingen, DE
 PATENT APPLICANT(S): Behr GmbH & Co., Mauserstrasse 3, 70469 Stuttgart, DE
 PATENT APPL. NUMBER: 459182
 AGENT: Grauel, Andreas, Dr., BEHR GmbH & Co. KG, Intellectual
 Property, G-IP, Mauserstrasse 3, 70469 Stuttgart, DE
 AGENT NUMBER: 94254
 DOCUMENT TYPE: Patent
 LANGUAGE OF FILING: German
 LANGUAGE OF PUBL.: German
 LANGUAGE OF PROCEDURE: German
 LANGUAGE OF TITLE: German; English; French
 PATENT INFO TYPE: EPO3 Separate publication of search report
 PATENT INFORMATION:

NUMBER	KIND	DATE
EP 1342815	A3	20040811

DESIGNATED STATES: AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IT LI
 LU MC NL PT SE SI SK TR
 EXTENSION STATES:
 AL LT LV MK RO
 APPLICATION INFO.: EP 2003-3993 A 20030224
 PRIORITY INFO.: DE 2002-10210216 A 20020308

ABEN

Process for soldering aluminum used in the production of heat exchangers for vehicles comprises carrying out a reducing plasma treatment of the aluminum surface, and soldering

Process for soldering aluminum comprises carrying out a reducing plasma treatment of the aluminum surface, and soldering. An independent claim is also included for a device for carrying out the above process comprising a process chamber for the plasma treatment connected to a soldering unit. Preferred Features: A plasma based on noble gases, nitrogen, hydrogen, alkyl-forming gases, fluorides and their mixtures and/or compounds is used as the process gas. The plasma treatment is carried out at a pressure of less than 2 x 10⁴ Pa, preferably less than 10⁴ Pa, especially less than 200 Pa.

ABDE

Die Erfindung betrifft ein Verfahren zum Loeten von Aluminium, wobei eine reduzierende Plasmabehandlung der Oberflaeche des Aluminiums durchgefuehrt und anschliessend geloetet wird.

L8 ANSWER 70 OF 80 HCAPLUS COPYRIGHT 2009 ACS on STN DUPLICATE 10
 ACCESSION NUMBER: 2003:172921 HCAPLUS
 DOCUMENT NUMBER: 138:191609
 TITLE: Flux mixture for brazing of aluminum alloy parts
 INVENTOR(S): Englert, Peter; Skiba, Erwin;
 Trautwein, Ingo
 PATENT ASSIGNEE(S): Behr G.m.b.H. & Co., Germany
 SOURCE: Eur. Pat. Appl., 13 pp.
 CODEN: EPXXDW
 DOCUMENT TYPE: Patent
 LANGUAGE: German
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
EP 1287941	A1	20030305	EP 2002-17571	20020807
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, SK				
DE 10141883	A1	20030320	DE 2001-10141883	20010828
DE 20121992	U1	20031127	DE 2001-20121992	20010828
EP 1897651	A1	20080312	EP 2007-22656	20020807
R: AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, IE, IT, LI, LU, MC, NL, PT, SE, SK, TR				
PRIORITY APPLN. INFO.:			DE 2001-10141883	A 20010828
			EP 2002-17571	A3 20020807
AB	The mixture contains a K fluoroaluminate flux 15-50 (preferably 15-45), a binder (e.g., polyurethane) 0.1-30 (preferably 1-25), and a solvent balance. Optionally, the mixture also contains ≥1% (preferably 1-10%) thixotropic agent (e.g., gelatin and/or pectin). Preparation of the brazing flux mixture involves (1) mixing of the binder, thixotropic agent, and 50% of the solvent, (2) addition of the flux with stirring, and (3) addition of the remaining part of the solvent. The mixture is then deposited on Al and Al alloy parts to be brazed and dried below 220°. The coated parts are covered with a hydrophobically sealing layer and shaped. After removing the sealing layer by evaporation, pyrolysis, and/or extraction with			

hydrocarbons (e.g., olefins), brazing is done above 450°. The procedure is especially suitable for brazing of automobile parts.
 REFERENCE COUNT: 14 THERE ARE 14 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L8 ANSWER 71 OF 80 HCAPLUS COPYRIGHT 2009 ACS on SIN
 ACCESSION NUMBER: 2003:830354 HCAPLUS
 TITLE: Heat exchanger provided for heating purposes and comprising an electric heating device
 INVENTOR(S): Englert, Peter; Kohl, Michael; Traub, Matthias
 PATENT ASSIGNEE(S): Behr GmbH & Co., Germany
 SOURCE: PCT Int. Appl.
 CODEN: PIXXD2
 DOCUMENT TYPE: Patent
 LANGUAGE: German
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2003088712	A2	20031023	WO 2003-EP3770	20030411
W:	AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, OM, PH, PL, PT, RO, RU, SD, SE, SG, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZM, ZW			
RW:	GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG			
JP 2005522666	T	20050728	JP 2003-585474	20030411
ES 2257673	T3	20060801	ES 2003-732277	20030411
PRIORITY APPLN. INFO.:			DE 2002-10216157	A 20020412
			WO 2003-EP3770	W 20030411

AB The invention relates to a heat exchanger provided for heating purposes, particularly for a motor vehicle, comprising: a number of parallel pipes, at least one electric heating device (4), which is mounted each time between two adjacent pipes, and comprising a number of fin elements (5) situated between each pair of adjacent pipes and between each heating device (4) and the pipes adjacent thereto. In order to be able to better control the power absorption of the heating devices (4), each heating device (4) comprises two separately controllable heating sections (6, 7). One heating section (6) is placed on one side (8) of the heating device (4) facing one adjacent pipe, whereas the other heating section (7) is placed on an opposite side (9) of the heating device (4) facing the other adjacent pipe.

L8 ANSWER 72 OF 80 HCAPLUS COPYRIGHT 2009 ACS on SIN
 ACCESSION NUMBER: 2003:737652 HCAPLUS
 DOCUMENT NUMBER: 139:233754
 TITLE: Flux for soldering of aluminum
 INVENTOR(S): Englert, Peter; Heeb, Wolfgang; Knoedler, Wolfgang
 PATENT ASSIGNEE(S): Behr GmbH & Co., Germany
 SOURCE: PCT Int. Appl., 14 pp.
 CODEN: PIXXD2
 DOCUMENT TYPE: Patent
 LANGUAGE: German
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2003076123	A1	20030918	WO 2003-EP1849	20030224
W:	AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, OM, PH, PL, PT, RO, RU, SD, SE, SG, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZM, ZW			
RW:	GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG			
DE 10210133	A1	20030918	DE 2002-10210133	20020308
AU 2003210341	A1	20030922	AU 2003-210341	20030224
BR 2003003355	A	20040330	BR 2003-3355	20030224
CN 1511074	A	20040707	CN 2003-800309	20030224
CN 1308115	C	20070404		
EP 1485227	A1	20041215	EP 2003-743817	20030224
R:	AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, HU, SK			
JP 2005518946	T	20050630	JP 2003-574378	20030224
ZA 2003008689	A	20041123	ZA 2003-8689	20031107
US 20040163734	A1	20040826	US 2004-483338	20040112
US 7481894	B2	20090127		
PRIORITY APPLN. INFO.:			DE 2002-10210133	A 20020308
			WO 2003-EP1849	W 20030224
AB	The invention relates to a soldering flux based on K fluoroaluminates, wherein Zr fluoride and/or Ti fluoride 0.1-10 weight% (preferably 0.5-3%) is added to the soldering flux. The invention also relates to a corresponding soldering method.			
REFERENCE COUNT:	13	THERE ARE 13 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT		
L8 ANSWER 73 OF 80	HCAPLUS COPYRIGHT 2009 ACS on STN			
ACCESSION NUMBER:	2003:737651 HCAPLUS			
DOCUMENT NUMBER:	139:233753			
TITLE:	Method for soldering of aluminum			
INVENTOR(S):	Englert, Peter; Heeb, Wolfgang; Knoedler, Wolfgang			
PATENT ASSIGNEE(S):	Behr G.m.b.H. & Co., Germany			
SOURCE:	PCT Int. Appl., 16 pp. CODEN: PIXXD2			
DOCUMENT TYPE:	Patent			
LANGUAGE:	German			
FAMILY ACC. NUM. COUNT:	1			
PATENT INFORMATION:				

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2003076113	A1	20030918	WO 2003-EP1894	20030225
W:	AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, OM, PH, PL, PT, RO, RU, SD, SE, SG, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZM, ZW			
RW:	GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG			

DE 10210217	A1	20031016	DE 2002-10210217	20020308
AU 2003222752	A1	20030922	AU 2003-222752	20030225
EP 1485224	A1	20041215	EP 2003-718676	20030225
EP 1485224	B1	20080220		

R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT,
IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, HU, SK

AT 386604	T	20080315	AT 2003-718676	20030225
ES 2301789	T3	20080701	ES 2003-718676	20030225

PRIORITY APPLN. INFO.:
DE 2002-10210217 A 20020308
WO 2003-EP1894 W 20030225

AB The invention relates to a method for fluxless soldering of Al, according to which a workpiece is provided with a base material containing an oxide film. The oxide film is partly detached from the base material during heating.

REFERENCE COUNT: 5 THERE ARE 5 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L8 ANSWER 74 OF 80 HCAPLUS COPYRIGHT 2009 ACS on STN

ACCESSION NUMBER: 2003:717269 HCAPLUS

DOCUMENT NUMBER: 139:233750

TITLE: Plasma brazing of aluminum with preliminary plasma etching

INVENTOR(S): Englert, Peter; Jilg, Ruediger; Trautwein, Ingo

PATENT ASSIGNEE(S): Behr G.m.b.H. & Co., Germany

SOURCE: Eur. Pat. Appl., 3 pp.
CODEN: EPXXDW

DOCUMENT TYPE: Patent

LANGUAGE: German

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
EP 1342815	A2	20030910	EP 2003-3993	20030224
EP 1342815	A3	20040811		

R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT,
IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, HU, SK

DE 10210216	A1	20031016	DE 2002-10210216	20020308
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PRIORITY APPLN. INFO.:
DE 2002-10210216 A 20020308

AB The invention concerns a procedure for brazing of aluminum, whereby a reducing plasma of the aluminum surface is accomplished for 30 s to 10 min and makes brazing subsequently. Plasma gas is selected from noble gases, N₂, H₂, alkyl-forming and fluorine-containing gases, or mixts. thereof used at pressure ≤104 Pa, preferably ≤200 Pa, and power d. >0.1 W/cm².

REFERENCE COUNT: 11 THERE ARE 11 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L8 ANSWER 75 OF 80 HCAPLUS COPYRIGHT 2009 ACS on STN

ACCESSION NUMBER: 2001:888198 HCAPLUS

DOCUMENT NUMBER: 136:137481

TITLE: Discovery of cosmogenic nuclides: Early history and science applications

AUTHOR(S): Englert, Peter A. J.

CORPORATE SOURCE: Faculty of Science, Victoria University of Wellington, Wellington, N. Z.

SOURCE: Journal of the Korean Physical Society (2001), 39(4, Pt. 2), 747-754
CODEN: JKPSDV; ISSN: 0374-4884

PUBLISHER: Korean Physical Society

DOCUMENT TYPE: Journal; General Review

LANGUAGE: English

AB A review. This paper describes and tries to understand the development of cosmogenic nuclide research at its beginnings with a brief look at the history of cosmic ray research. It shows the pathways leading from cosmic ray research outcomes and nuclear physics prerequisites to the discovery of the cosmogenic radionuclide ¹⁴C in the Earth's atmosphere. Also it provides a short account of the discovery of other atmospherically produced cosmogenic nuclides and indicates the role meteorite research played in the discovery of the first stable cosmogenic nuclide, as well as the first cosmogenic radionuclide in solid matter exposed to cosmic radiation. At the final section, a brief historical sketch of the development of accelerator mass spectrometry, a measurement technique that is destined to finally fully integrate cosmogenic nuclide research applications into the fields of application, is presented.

REFERENCE COUNT: 75 THERE ARE 75 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L8 ANSWER 76 OF 80 EPFULL COPYRIGHT 2009 EPO/FIZ KA/LNU ON STN

ACCESSION NUMBER: 1992:26326 EPFULL
DATA UPDATE DATE: 19960717
DATA UPDATE WEEK: 199629
TITLE (ENGLISH): Method for cleaning electrical connectors
TITLE (FRENCH): Methode pour nettoyer des pinces electriques
TITLE (GERMAN): Verfahren zum Reinigen elektrischer Verbindungsteile
INVENTOR(S): Englert, Paul Joseph, 27 Patriots Road, Morris Plains, New Jersey 07950, US; Nicholl, Hugh, 2600 Lake Hollow Road, Berthoud, Colorado 80513, US; Read, Peter Hartpence, 104 Mark Drive, Morrisville, Pennsylvania 19067, US
PATENT APPLICANT(S): AT&T Corp., (AT & T Corp), 32 Avenue of the Americas, New York, NY 10013-2412, US
PATENT APPL. NUMBER: 589370
AGENT: Johnston, Kenneth Graham, et al, Lucent Technologies (UK) Ltd, 5 Mornington Road, Woodford Green Essex, IG8 OTU, GB
AGENT NUMBER: 32382
DOCUMENT TYPE: Patent
LANGUAGE OF FILING: English
LANGUAGE OF PUBL.: English
LANGUAGE OF PROCEDURE: English
LANGUAGE OF TITLE: German; English; French
PATENT INFO TYPE: EPB1 Granted patent
PATENT INFORMATION:

NUMBER	KIND	DATE
EP 501649	B1	19960717
DE FR GB IT		
EP 1992-301297	A	19920218
US 1991-661363	A	19910226
EP 412475	A	
DE 3328091	C	
US 3634265	A	
US 4934391	A	

ABEN

Disclosed is a method for cleaning solder flux from connectors. A first solution comprising a monobasic ester is applied to the connectors. A second solution, which can include a solvent for a lubricant, is then applied to displace the first solvent.

(image, 0.1, abstract drawing)

L8 ANSWER 77 OF 80 HCAPLUS COPYRIGHT 2009 ACS on STN

ACCESSION NUMBER: 1996:140934 HCAPLUS

DOCUMENT NUMBER: 124:181443

ORIGINAL REFERENCE NO.: 124:33523a,33526a

TITLE: Reflectance spectroscopy and geochemical analyses of Lake Hoare sediments, Antarctica: implications for remote sensing of the Earth and Mars
AUTHOR(S): Bishop, Janice L.; Koeberl, Christian; Kralik, Claudia; Froeschl, Heinz; Englert, Peter A. J.; Andersen, David W.; Pieters, Carle M.; Wharton, Robert A., Jr.

CORPORATE SOURCE: DLR, Institute Planetary Exploration, Berlin, D-12489, Germany

SOURCE: Geochimica et Cosmochimica Acta (1996), 60(5), 765-85
CODEN: GCACAK; ISSN: 0016-7037

PUBLISHER: Elsevier

DOCUMENT TYPE: Journal

LANGUAGE: English

AB Visible to IR reflectance spectroscopic analyses (0.3-25 μm) have been performed on sediments from the Dry Valleys region of Antarctica. Sample characterization for these sediments includes extensive geochem. analyses and x-ray diffraction (XRD). The reflectance spectra and XRD indicate major ams. of quartz, feldspar, and pyroxene in these samples and lesser ams. of carbonate, mica, chlorite, amphibole, illite, smectite, and organic matter. Calcite is the primary form of carbonate present in these Lake Hoare sediments based on the elemental abundances and spectroscopic features. The particle-size distribution of the major and secondary components influences their detection in mixts. and this sensitivity to particle size is manifested differently in the "volume scattering" and "surface scattering" IR regions. The Christiansen feature lies between these two spectral regimes and is influenced by the spectral properties of both regions. For these mixts. the Christiansen feature was found to be dependent on phys. parameters, such as particle size and sample texture, as well as the mineralogy. Semiquant. spectroscopic detection of calcite and organic material has been tested in these quartz- and feldspar-rich sediments. The relative spectral band depths due to orgs. and calcite correlate in general with the wt% C from organic matter and carbonate. The ams. of organic matter and carbonate present correlate with high Br and U abundances and high Ca and Sr abundances, resp. Variation in the elemental abundances was overall minimal, which is consistent with a common sedimentary origin for the forty-two samples studied from Lake Hoare.

L8 ANSWER 78 OF 80 HCAPLUS COPYRIGHT 2009 ACS on STN

ACCESSION NUMBER: 1995:641611 HCAPLUS

DOCUMENT NUMBER: 123:42433

ORIGINAL REFERENCE NO.: 123:7535a,7538a

TITLE: Production of cosmogenic nuclides in thick targets by alpha bombardment. Part I - short-lived radioisotopes
AUTHOR(S): Paul, Rick L.; Harris, Lennox J.; Englert, Peter A. J.; Goldman, Iuda D.; Jackson, Charles; Larimer, Ruth-Mary; Lesko, K. T.; Napier, Beth; Norman, Eric B.; et al.

CORPORATE SOURCE: Nuclear Science Facility, San Jose State University, San Jose, USA

SOURCE: Nuclear Instruments & Methods in Physics Research, Section B: Beam Interactions with Materials and Atoms (1995), 100(4), 464-70
CODEN: NIMBEU; ISSN: 0168-583X

PUBLISHER: Elsevier

DOCUMENT TYPE: Journal
 LANGUAGE: English
 AB Production of short-lived cosmogenic nuclides in planetary surfaces and remote spacecraft detectors was simulated by bombarding "thick" C, Mg, Al, Si, SiO₂, Fe, Ni, and Ge targets with 60, 90 and 120 MeV alpha particles. Gold foils were used to monitor alpha particle fluence; product nuclides were measured by gamma ray spectroscopy. The results were used to calculate production yields for each alpha energy, as well as cross sections averaged over the energy ranges 60-90 and 90-120 MeV.

L8 ANSWER 79 OF 80 HCAPLUS COPYRIGHT 2009 ACS on STN
 ACCESSION NUMBER: 1994:30243 HCAPLUS
 DOCUMENT NUMBER: 120:30243
 ORIGINAL REFERENCE NO.: 120:5697a,5700a
 TITLE: Transforming traditional quantitative analysis into a course on modern analytical science
 AUTHOR(S): Perone, S. S.; Englert, Peter; Pesek, Joseph; Stone, Craig
 CORPORATE SOURCE: San Jose State Univ., San Jose, CA, 95192, USA
 SOURCE: Journal of Chemical Education (1993), 70(10), 846
 CODEN: JCEDA8; ISSN: 0021-9584
 DOCUMENT TYPE: Journal
 LANGUAGE: English
 AB The authors discuss a new lecture structure for sophomores at the San Jose State University which provides a common foundation for introducing any chemical anal. technique.

L8 ANSWER 80 OF 80 HCAPLUS COPYRIGHT 2009 ACS on STN
 ACCESSION NUMBER: 1987:159675 HCAPLUS
 DOCUMENT NUMBER: 106:159675
 ORIGINAL REFERENCE NO.: 106:25951a,25954a
 TITLE: Meteorite from the Antarctic
 AUTHOR(S): Englert, Peter
 CORPORATE SOURCE: Fed. Rep. Ger.
 SOURCE: Sterne und Weltraum (1987), 26(1), 18-23
 CODEN: STUWAN; ISSN: 0039-1263
 DOCUMENT TYPE: Journal; General Review
 LANGUAGE: German
 AB A review with 4 refs. on meteorites found in Antarctica.

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=> d cost
COST IN U.S. DOLLARS                SINCE FILE      TOTAL
                                     ENTRY    SESSION
CONNECT CHARGES                     16.26        16.41
NETWORK CHARGES                     0.56         0.63
DISPLAY CHARGES                     188.39       188.39
-----
FULL ESTIMATED COST                 205.21       205.43

DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)  SINCE FILE      TOTAL
                                               ENTRY    SESSION
CA SUBSCRIBER PRICE                  -37.72       -37.72
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IN FILE 'HCAPLUS, INSPEC, SCISEARCH, USPATFULL, USPATOLD, USPAT2, EPFULL, GBFULL' AT 18:54:37 ON 15 MAR 2009

=> d scan 16

L6 337 ANSWERS HCAPLUS COPYRIGHT 2009 ACS on STN
 CC 57-8 (Ceramics)

TI Method for bonding carbon/carbon composite by vacuum diffusion
 ST carbon composite vacuum diffusion bonding intermediate layer
 IT Adhesion, physical
 Ceramics
 (method for bonding carbon/carbon composite by vacuum diffusion)
 IT Carbon fibers, processes
 RL: PEP (Physical, engineering or chemical process); TEM (Technical or engineered material use); PROC (Process); USES (Uses)
 (method for bonding carbon/carbon composite by vacuum diffusion)
 IT 67-64-1, Acetone, processes
 RL: NUU (Other use, unclassified); PEP (Physical, engineering or chemical process); PROC (Process); USES (Uses)
 (method for bonding carbon/carbon composite by vacuum diffusion)
 IT 7440-44-0, Carbon, processes
 RL: PEP (Physical, engineering or chemical process); PRP (Properties); TEM (Technical or engineered material use); PROC (Process); USES (Uses)
 (method for bonding carbon/carbon composite by vacuum diffusion)
 IT 409-21-2, Silicon carbide, processes 1344-28-1, Alumina, processes
 7440-32-6, Titanium, processes 11106-92-6 12743-70-3 264236-82-0
 RL: PEP (Physical, engineering or chemical process); TEM (Technical or engineered material use); PROC (Process); USES (Uses)
 (method for bonding carbon/carbon composite by vacuum diffusion)

HOW MANY MORE ANSWERS DO YOU WISH TO SCAN? (1):1

L6 337 ANSWERS HCAPLUS COPYRIGHT 2009 ACS ON STN
 CC 73-5 (Optical, Electron, and Mass Spectroscopy and Other Related Properties)
 TI Method for preparing phospholipid-coupled photoluminescent quantum dots with core-shell structure
 ST phospholipid coupled photoluminescent quantum dot core shell structure prepn
 IT Phospholipids, uses
 RL: TEM (Technical or engineered material use); USES (Uses)
 (mercapto-; method for preparing phospholipid-coupled photoluminescent quantum dots with core-shell structure)
 IT Quantum dot devices
 (method for preparing phospholipid-coupled photoluminescent quantum dots with core-shell structure)
 IT Oxides (inorganic), uses
 RL: TEM (Technical or engineered material use); USES (Uses)
 (method for preparing phospholipid-coupled photoluminescent quantum dots with core-shell structure)
 IT 1306-24-7, Cadmium selenide, uses 1314-98-3, Zinc sulfide, uses
 RL: TEM (Technical or engineered material use); USES (Uses)
 (method for preparing phospholipid-coupled photoluminescent quantum dots with core-shell structure)

HOW MANY MORE ANSWERS DO YOU WISH TO SCAN? (1):1

L6 337 ANSWERS HCAPLUS COPYRIGHT 2009 ACS ON STN
 CC 73-5 (Optical, Electron, and Mass Spectroscopy and Other Related Properties)
 Section cross-reference(s): 66, 75
 TI Luminescent carbon nanotubes by surface functionalization
 ST erbium yttria nanophosphor carbon nanotube luminescence; europia phosphor carbon nanotube luminescence; surface structure erbium yttria nanophosphor carbon nanotube luminescence
 IT Nanocrystals
 (Eu-doped Y2O3 nanophosphor; luminescent carbon nanotubes from surface functionalization by Eu-doped Y2O3 nanophosphor)
 IT Phosphors

(Eu-doped Y2O3 nanophosphor; of Eu-doped Y2O3)

IT Ultrathin films
(Eu-doped Y2O3; luminescent carbon nanotubes from surface functionalization by Eu-doped Y2O3 nanophosphor)

IT Fluorescence
(IR; of carbon nanotubes from surface functionalization by europia)

IT Nanotubes
(carbon; luminescent carbon nanotubes from surface functionalization by Eu-doped Y2O3 nanophosphor)

IT Heat treatment
(luminescent carbon nanotubes from surface functionalization by Eu-doped Y2O3 nanophosphor with)

IT Particle size
(nanoscale; of Eu-doped Y2O3)

IT Thickness
(of Eu-doped Y2O3)

IT Electron diffraction
Luminescence
(of Eu-doped Y2O3 nanophosphor and erbia on carbon nanotubes)

IT Energy transfer
Surface structure
(of Eu-doped Y2O3 nanophosphor on carbon nanotubes)

IT 12061-16-4, Erbium
RL: PEP (Physical, engineering or chemical process); PRP (Properties); PYP (Physical process); PROC (Process)
(C nanotubes coated with; luminescent carbon nanotubes from surface functionalization by europia)

IT 7440-53-1, Europium, properties 22541-18-0, Europium(3+), properties
RL: MOA (Modifier or additive use); PEP (Physical, engineering or chemical process); PRP (Properties); PYP (Physical process); PROC (Process); USES (Uses)
(Eu-doped Y2O3; luminescent carbon nanotubes from surface functionalization by Eu-doped Y2O3 nanophosphor)

IT 1314-36-9, Yttrium oxide (Y2O3), properties
RL: PEP (Physical, engineering or chemical process); PRP (Properties); PYP (Physical process); PROC (Process)
(Eu-doped Y2O3; luminescent carbon nanotubes from surface functionalization by Eu-doped Y2O3 nanophosphor)

IT 7440-44-0, Carbon, properties
RL: PRP (Properties)
(luminescent carbon nanotubes from surface functionalization by Eu-doped Y2O3 nanophosphor)

HOW MANY MORE ANSWERS DO YOU WISH TO SCAN? (1):1

L6 337 ANSWERS HCAPLUS COPYRIGHT 2009 ACS on STN
CC 55-4 (Ferrous Metals and Alloys)

TI Microstructure and corrosion behaviour of sintered stainless steel prepared with electroless Cu-plated powder

ST copper electroless plating stainless steel powder sintered density corrosion

IT Porosity
(copper alloying decrease of; microstructure and corrosion resistance of sintered stainless steel prepared with electroless Cu-plated powder particles)

IT Coating process
(electroless; microstructure and corrosion resistance of sintered stainless steel prepared with electroless Cu-plated powder particles)

IT Sintering
(microstructure and corrosion resistance of sintered stainless steel prepared with electroless Cu-plated powder particles)

IT Corrosion

(resistance; microstructure and corrosion resistance of sintered stainless steel prepared with electroless Cu-plated powder particles)
 IT 7440-50-8, Copper, processes 11134-23-9, Aisi 3161
 RL: PEP (Physical, engineering or chemical process); PRP (Properties); PYP (Physical process); PROC (Process)
 (microstructure and corrosion resistance of sintered stainless steel prepared with electroless Cu-plated powder particles)

HOW MANY MORE ANSWERS DO YOU WISH TO SCAN? (1):1

L6 337 ANSWERS HCAPLUS COPYRIGHT 2009 ACS ON STN

CC 57-2 (Ceramics)

Section cross-reference(s): 38

TI Interfacial particle bonding via an ultrathin polymer film on Al2O3 nanoparticles by plasma polymerization

ST alumina ceramic property nanoparticle plasma polymn coating consolidation

IT Ceramics

Nanoparticles

(alumina; fluidized bed plasma polymerization preparation of pyrrole-based polymer

coatings on alumina nanoparticles for subsequent low-temperature consolidation of compacts and assessment of compact interfacial particle bonding)

IT Powders

(ceramic, alumina; fluidized bed plasma polymerization preparation of pyrrole-based

polymer coatings on alumina nanoparticles for subsequent low-temperature consolidation of compacts and assessment of compact interfacial particle bonding)

IT Microhardness

(fluidized bed plasma polymerization preparation of pyrrole-based polymer coatings

on alumina nanoparticles for subsequent low-temperature consolidation of compacts and assessment of compact interfacial particle bonding)

IT Polymerization

(plasma; fluidized bed plasma polymerization preparation of pyrrole-based polymer

coatings on alumina nanoparticles for subsequent low-temperature consolidation of compacts and assessment of compact interfacial particle bonding)

IT Ceramics

(powders, alumina; fluidized bed plasma polymerization preparation of pyrrole-based

polymer coatings on alumina nanoparticles for subsequent low-temperature consolidation of compacts and assessment of compact interfacial particle bonding)

IT 109-97-7, Pyrrole

RL: NUU (Other use, unclassified); PEP (Physical, engineering or chemical process); PYP (Physical process); PROC (Process); USES (Uses)

(films, binder; fluidized bed plasma polymerization preparation of

pyrrole-based

polymer coatings on alumina nanoparticles for subsequent low-temperature consolidation of compacts and assessment of compact interfacial particle bonding)

IT 1344-28-1, Aluminum oxide (Al2O3), processes

RL: PEP (Physical, engineering or chemical process); PRP (Properties); PYP (Physical process); TEM (Technical or engineered material use); PROC (Process); USES (Uses)

(powders and compacts; fluidized bed plasma polymerization preparation of pyrrole-based polymer coatings on alumina nanoparticles for subsequent low-temperature consolidation of compacts and assessment of compact interfacial particle bonding)

HOW MANY MORE ANSWERS DO YOU WISH TO SCAN? (1):0

=> s l6 and (flux or nano?)

L9 61 L6 AND (FLUX OR NANO?)

=> d scan 19

L9 61 ANSWERS HCAPLUS COPYRIGHT 2009 ACS on STN

CC 38-3 (Plastics Fabrication and Uses)

Section cross-reference(s): 35, 42

TI Surface modification and ultrasonication effect on the mechanical properties of carbon nanofiber/polycarbonate composites

ST carbon nanofiber polycarbonate composite surface modification ultrasonication mech property

IT Polymer morphology

(fracture-surface; surface modification and ultrasonication effect on mech. properties of polystyrene-plasma-coated carbon nanofiber /polycarbonate composites)

IT Carbon fibers, uses

RL: MOA (Modifier or additive use); USES (Uses)

(nanofibers; surface modification and ultrasonication effect on mech. properties of polystyrene-plasma-coated carbon nanofiber/polycarbonate composites)

IT Coating process

(plasma spraying; surface modification and ultrasonication effect on mech. properties of polystyrene-plasma-coated carbon nanofiber /polycarbonate composites)

IT Polymerization

(plasma; surface modification and ultrasonication effect on mech. properties of polystyrene-plasma-coated carbon nanofiber /polycarbonate composites)

IT Fracture surface morphology

(polymeric; surface modification and ultrasonication effect on mech. properties of polystyrene-plasma-coated carbon nanofiber /polycarbonate composites)

IT Nanocomposites

Nanofibers

Surface treatment

Tensile strength

Young's modulus

(surface modification and ultrasonication effect on mech. properties of polystyrene-plasma-coated carbon nanofiber/polycarbonate composites)

IT Polycarbonates, uses

RL: POF (Polymer in formulation); PRP (Properties); USES (Uses)

(surface modification and ultrasonication effect on mech. properties of polystyrene-plasma-coated carbon nanofiber/polycarbonate composites)

IT Sonication

(ultrasonication; surface modification and ultrasonication effect on mech. properties of polystyrene-plasma-coated carbon nanofiber /polycarbonate composites)

IT 9003-53-6, Polystyrene

RL: TEM (Technical or engineered material use); USES (Uses)

(surface modification and ultrasonication effect on mech. properties of polystyrene-plasma-coated carbon nanofiber/polycarbonate composites)

HOW MANY MORE ANSWERS DO YOU WISH TO SCAN? (1):0

=> s l6 and (flux or braz?)

L10 50 L6 AND (FLUX OR BRAZ?)

=> d scan 110\
DISPLAY FORMATS NOT ALLOWED WITH SCAN IN A MULTIFILE ENVIRONMENT

=> d scan 110

L10 50 ANSWERS HCAPLUS COPYRIGHT 2009 ACS on STN
CC 56 (Nonferrous Metals and Alloys)
TI Effect of mechanical milling on Ni-TiH₂ powder alloy filler metal for
brazing TiAl intermetallic alloy: The microstructure and joint's
properties

HOW MANY MORE ANSWERS DO YOU WISH TO SCAN? (1):1

L10 50 ANSWERS HCAPLUS COPYRIGHT 2009 ACS on STN
CC 56 (Nonferrous Metals and Alloys)
TI Interface character of high-strength graphite and copper joints
brazed with Ti-based amorphous filler metal
ST interface graphite copper joint brazed titanium amorphous
braze

HOW MANY MORE ANSWERS DO YOU WISH TO SCAN? (1):1

L10 50 ANSWERS HCAPLUS COPYRIGHT 2009 ACS on STN
CC 56 (Nonferrous Metals and Alloys)
TI Research on the brazing of SiO₂ ceramic to TC4 alloy

HOW MANY MORE ANSWERS DO YOU WISH TO SCAN? (1):0

=> s 110 and nano?

L11 1 L10 AND NANO?

=> d 111

L11 ANSWER 1 OF 1 HCAPLUS COPYRIGHT 2009 ACS on STN
AN 2005:1228016 HCAPLUS
DN 144:25749
TI Method of expansion brazing and manufacture of active binding
agent
IN He, Peng; Feng, Jicai; Qian, Yiyu; Li, Zhuoran; Han, Jiecai
PA Harbin Institute of Technology, Peop. Rep. China
SO Faming Zhuanli Shenqing Gongkai Shuomingshu, 6 pp.
CODEN: CNXXEV
DT Patent
LA Chinese
FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
	-----	----	-----	-----	-----
PI	CN 1413797	A	20030430	CN 2002-133238	20021021
PRAI	CN 2002-133238		20021021		

=> d 111 all

L11 ANSWER 1 OF 1 HCAPLUS COPYRIGHT 2009 ACS on STN
AN 2005:1228016 HCAPLUS
DN 144:25749
ED Entered STN: 21 Nov 2005
TI Method of expansion brazing and manufacture of active binding
agent

IN He, Peng; Feng, Jicai; Qian, Yiyu; Li, Zhuoran; Han, Jiecai
 PA Harbin Institute of Technology, Peop. Rep. China
 SO Faming Zhuanli Shenqing Gongkai Shuomingshu, 6 pp.
 CODEN: CNXXEV

DT Patent
 LA Chinese
 IC ICM B23K035-362
 ICS B23K031-12
 CC 56-9 (Nonferrous Metals and Alloys)
 FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	CN 1413797	A	20030430	CN 2002-133238	20021021
PRAI	CN 2002-133238		20021021		

CLASS

	PATENT NO.	CLASS	PATENT FAMILY CLASSIFICATION CODES
AB	CN 1413797	ICM ICS IPCI IPCR	B23K035-362 B23K031-12 B23K0035-362 [ICM,7]; B23K0031-12 [ICS,7] B23K0031-12 [I,C*]; B23K0031-12 [I,A]; B23K0035-362 [I,C*]; B23K0035-362 [I,A]
ST			The binding agent contains adhesive agent, noncorrosive flux, and active nanopowder with a rate of (1-20):(1-5):(0-1). The adhesive agent contains water and organic cellulose with a rate of.
IT			expansion brazing active binder
IT			Joints, mechanical (brazed; method of expansion brazing and manufacture of active binding agent)
IT			Fluxes (brazing; method of expansion brazing and manufacture of active binding agent)
IT			Brazing (fluxes; method of expansion brazing and manufacture of active binding agent)
IT			Adhesives Binders Brazes Brazing (method of expansion brazing and manufacture of active binding agent)
IT			Nanoparticles Powders (nanopowders; method of expansion brazing and manufacture of active binding agent)

=> s fluxes/it and nanoparticles/it

'IT' IS NOT A VALID FIELD CODE

'IT' IS NOT A VALID FIELD CODE

'IT' IS NOT A VALID FIELD CODE

'IT' IS NOT A VALID FIELD CODE

L12 29 FLUXES/IT AND NANOPARTICLES/IT

=> d scan l12

L12 29 ANSWERS HCAPLUS COPYRIGHT 2009 ACS on STN

CC 56-9 (Nonferrous Metals and Alloys)

TI Study on the preparation of nano-aluminum flux material in microemulsion

ST nanoparticle aluminum brazing flux microemulsion potassium fluoride

IT Fluxes
(brazing; preparation of nano-aluminum flux material in microemulsion)

IT Brazing
(fluxes; preparation of nano-aluminum flux material in microemulsion)

IT Nanoparticles
(preparation of nano-aluminum flux material in microemulsion)

IT 13775-52-5, Aluminum potassium fluoride (AlK3F6) 14484-69-6, Aluminum potassium fluoride (AlKF4)
RL: FMU (Formation, unclassified); FORM (Formation, nonpreparative)
(preparation of nano-aluminum flux material in microemulsion)

IT 7784-18-1, Aluminum fluoride (AlF3) 7789-23-3, Potassium fluoride (KF)
RL: NUU (Other use, unclassified); USES (Uses)
(preparation of nano-aluminum flux material in microemulsion)

IT 7429-90-5, Aluminum, processes
RL: PEP (Physical, engineering or chemical process); PYP (Physical process); PROC (Process)
(preparation of nano-aluminum flux material in microemulsion)

HOW MANY MORE ANSWERS DO YOU WISH TO SCAN? (1):0

=> dup rem l12

PROCESSING COMPLETED FOR L12

L13 26 DUP REM L12 (3 DUPLICATES REMOVED)

=> d l13 1-26 ibib,abs

L13 ANSWER 1 OF 26 HCAPLUS COPYRIGHT 2009 ACS on STN

ACCESSION NUMBER: 2009:50161 HCAPLUS

DOCUMENT NUMBER: 150:103402

TITLE: Solder compositions containing dispersed metal nanoparticles for inkjet printing

INVENTOR(S): Terada, Nobuto; Matsuba, Yorishige

PATENT ASSIGNEE(S): Harima Chemicals, Inc., Japan

SOURCE: Jpn. Kokai Tokkyo Koho, 28pp.

CODEN: JKXXAF

DOCUMENT TYPE: Patent

LANGUAGE: Japanese

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 2009006337	A	20090115	JP 2007-168121	20070626
PRIORITY APPLN. INFO.:			JP 2007-168121	20070626

AB The ink comps. contain average particle size 2-100 nm Sn nanoparticles and Ag nanoparticles dispersed in high b.p. nonpolar solvents, and fluxes by satisfying (1) mixing ratio of the nanoparticles W_{Sn}:W_{Ag} (W_{Sn} + W_{Ag} = 100) 95:5 to 99.5:0.5, (2) average particle size ratio of d₁ for Sn and d₂ for Ag, d₁:d₂ 4:1-10:1, (3) flux addition amount 0.5-2 parts (to 10 parts Sn nanoparticles), and (4) nonpolar hydrocarbon solvents having b.p. 200-320°. Alternatively, the comps. contain organic acid Cu salts for W_{Cu} at mixing ratio W_{Sn}:W_{Ag}:W_{Cu} (W_{Sn} + W_{Ag} + W_{Cu} = 100) 95-99.5:5-0.5:0.7-0.1. The comps. provide excellent low-temperature solderability.

L13 ANSWER 2 OF 26 HCAPLUS COPYRIGHT 2009 ACS on STN

ACCESSION NUMBER: 2008:1524741 HCAPLUS

DOCUMENT NUMBER: 150:137660

TITLE: Protein Design Provides Lead(II) Ion Biosensors for Imaging Molecular Fluxes around Red Blood Cells

AUTHOR(S): Shete, Vivekanand S.; Benson, David E.

CORPORATE SOURCE: Department of Chemistry, Wayne State University, Detroit, MI, 48202, USA

SOURCE: Biochemistry (2009), 48(2), 462-470
 CODEN: BICHAW; ISSN: 0006-2960
 PUBLISHER: American Chemical Society
 DOCUMENT TYPE: Journal
 LANGUAGE: English

AB Metalloprotein design and semiconductor nanoparticles have been combined to generate a reagent for selective fluorescence imaging of Pb²⁺ ions in the presence red blood cells. A biosensor system based on semiconductor nanoparticles provides the photonic properties for small mol. measurement in and around red blood cells. Metalloprotein design was used to generate a Pb²⁺ ion selective receptor from a protein that is structurally homologous to a protein used previously in this biosensing system. Parameters for the Pb²⁺ ion binding site were derived from crystallog. structures of low mol. weight Pb²⁺ ion complexes that contain a stereoactive lone pair. When the designed protein was produced and attached to ZnS-coated CdSe nanoparticles, two Pb(NO₃)₂-associated binding events were observed (2-fold emission decrease; K_{A1} = 1 + 10⁹ M⁻¹; K_{A2} = 3.5 + 10⁶ M⁻¹). The fluorescence response had a 100 pM Pb(NO₃)₂ detection limit, while no response was observed with Ca²⁺ ions (10 mM), Zn²⁺ ions (100 μM), or Cd²⁺ ions (100 μM). Metal ion selectivity presumably comes from the coordination geometry selected to favor lone pair formation on Pb²⁺ ions and electrostatically disfavor tetrahedral coordination. Replacement of ZnS-coated CdSe with ZnS-coated InGaP nanoparticles provided similar biosensors (100 pM limit of detection; K_{A1} = 1 + 10⁹ M⁻¹; K_{A2} = 1 + 10⁷ M⁻¹) but with excitation/emission wavelengths longer than the major absorbance of red blood cell Hb (>620 nm). The InGaP nanoparticle-based biosensors provided a 5 nM Pb(NO₃)₂ detection limit in the presence of red blood cells. The modularity of the biosensor system provides exchangeable Pb²⁺ ion detection around red blood cells.

REFERENCE COUNT: 67 THERE ARE 67 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L13 ANSWER 3 OF 26 HCAPLUS COPYRIGHT 2009 ACS on STN

ACCESSION NUMBER: 2008:1506700 HCAPLUS

DOCUMENT NUMBER: 150:31067

TITLE: Near-infrared luminescent phosphor nanoparticles, their production method, and biological substance-labeling agent

INVENTOR(S): Furusawa, Naoko; Tsukada, Kazuya; Okada, Hisatake

PATENT ASSIGNEE(S): Konica Minolta Medical & Graphic, Inc., Japan

SOURCE: PCT Int. Appl., 16pp.

CODEN: PIXXD2

DOCUMENT TYPE: Patent

LANGUAGE: Japanese

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2008152868	A1	20081218	WO 2008-JP58629	20080509
W:	AE, AG, AL, AM, AO, AT, AU, AZ, BA, BB, BG, BH, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DO, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, GT, HN, HR, HU, ID, IL, IN, IS, JP, KE, KG, KM, KN, KP, KR, KZ, LA, LC, LR, LS, LT, LU, LY, MA, MD, ME, MG, MK, MN, MW, MX, MY, MZ, NA, NG, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RS, RU, SC, SD, SE, SG, SK, SL, SM, SV, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, ZA, ZM, ZW			
R:	AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HR, HU, IE, IS, IT, LT, LU, LV, MC, MT, NL, NO, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG, BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW,			

AM, AZ, BY, KG, KZ, MD, RU, TJ, TM

PRIORITY APPLN. INFO.:

JP 2007-156059

A 20070613

AB It is intended to provide near-IR luminescent phosphor nanoparticles, which possess a high luminescent intensity while having an extremely small particle diameter. Also provided are a method for producing such near-IR luminescent phosphor nanoparticles, and a biol. substance-labeling agent using the near-IR luminescent nanoparticles. The near-IR luminescent phosphor nanoparticles possess an average particle diameter of 2-50nm, which

emit

a near-IR light having a wavelength within the range of 700-2000nm when excited by a near-IR light having a wavelength within the range of 700-900nm. The near-IR luminescent phosphor nanoparticles are characterized in that at least a part of their composition is represented by the following general formula (a). General formula (a): $AB1-x-yNd_xYbyP4O_{12}$ (in the formula, A represents at least one element selected from Li, Na, K, Rb and Cs; B represents at least one element selected from Sc, Y, La, Ce, Gd, Lu, Ga and In; and x and y satisfy the following relations: $0.05 \leq x \leq 0.999$, $0.001 \leq y \leq 0.950$, and $x + y \leq 1.0$).

REFERENCE COUNT:

11

THERE ARE 11 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L13 ANSWER 4 OF 26 HCAPLUS COPYRIGHT 2009 ACS on STN

ACCESSION NUMBER: 2008:1233464 HCAPLUS

DOCUMENT NUMBER: 149:517420

TITLE: SnAgCu-based nanostructure-reinforced lead-free composite solder, and its preparation method
Guo, Fu; Tai, Feng; Liu, Bin; Xia, Zhidong; Lei, Yongping; Shi, Yaowu

INVENTOR(S): Beijing University of Technology, Peop. Rep. China

PATENT ASSIGNEE(S): Faming Zhuanli Shengqing Gongkai Shuomingshu, 11pp.
SOURCE: CODEN: CNXXEV

DOCUMENT TYPE: Patent

LANGUAGE: Chinese

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
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CN 101279405	A	20081008	CN 2008-10112441	20080523

PRIORITY APPLN. INFO.:

AB The title solder comprises (by weight%): Sn-3.0Ag-0.5Cu solder paste 97-99, and enhancing particles (Ph trisilanol polyhedral oligomeric silsesquioxane, cyclohexyl trisilanol polyhedral oligomeric silsesquioxane, or iso-Bu trisilanol polyhedral oligomeric silsesquioxane with particle size of 10-100 nm) 1-3. The solder paste contains Sn-3.0Ag-0.5Cu 85 weight%, and flux 15 weight%. The solder has the advantages of good wetting property and creep resistance, high shear strength, good mech. property, and long service life of soldered joint.

L13 ANSWER 5 OF 26 HCAPLUS COPYRIGHT 2009 ACS on STN

ACCESSION NUMBER: 2008:740395 HCAPLUS

DOCUMENT NUMBER: 150:217277

TITLE: Preparation of calcium carbonate ultrafine particles using novel tube-in-tube microreactor

AUTHOR(S): Li, Min; Wang, Jie Xin; Wang, Qi An; Shao, Lei; Chen, Jian Feng

CORPORATE SOURCE: Key Lab for Nanomaterials, Ministry of Education, Beijing University of Chemical Technology, Beijing, 100029, Peop. Rep. China

SOURCE: Beijing Huagong Daxue Xuebao, Ziran Kexueban (2008), 35(3), 14-18

PUBLISHER: CODEN: BHDAAA; ISSN: 1671-4628
Beijing Huagong Daxue Xuebao, Ziran Kexueban Bianji
Weiyuanhui
DOCUMENT TYPE: Journal
LANGUAGE: Chinese

AB The preparation of ultrafine CaCO_3 particles from a solution reaction between CaCl_2 and Na_2CO_3 in a novel tube-in-tube microreactor is described. The effects of varying different factors such as flow rate, reactant concentration, micro-pore size, and mixing distance were investigated in detail. The sizes and morphologies of particles prepared using the microreactor were characterized by SEM and compared with those of a material prepared by a direct precipitation method. The results showed that the mean particle diameter decreased with increasing total flow rate and concns. of the reactants. The mixing distance had no significant effect on the particle size. Furthermore, it was found that the particles prepared using the microreactor had a mean diameter of $0.89 \mu\text{m}$ with a narrow size distribution, while the particles obtained using direct chemical precipitation under the same conditions had a broad distribution of particle size in the range $8. \text{apprx.} 11 \mu\text{m}$.

L13 ANSWER 6 OF 26 HCAPLUS COPYRIGHT 2009 ACS on STN DUPLICATE 1
ACCESSION NUMBER: 2007:733631 HCAPLUS
DOCUMENT NUMBER: 147:131064
TITLE: Method for producing a nanostructure such as a nanoscale cantilever
INVENTOR(S): Yi, Sungsoo; Chang, Ying-Lan
PATENT ASSIGNEE(S): USA
SOURCE: U.S. Pat. Appl. Publ., 14pp.
CODEN: USXXCO
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 20070155184	A1	20070705	US 2005-312090	20051220
PRIORITY APPLN. INFO.:			US 2005-312090	20051220

AB Producing a nanostructure, such as a nano-scale cantilever or a nanobridge, involves forming an elevational discontinuity, growing a nanowire that extends out from an upper surface of the elevational discontinuity, and then changing the orientation of the nanowire such that a portion of the nanowire extends above a lower surface of the elevational discontinuity. The orientation of the nanowire can be changed by exposing the nanowire to a flux of ions.

L13 ANSWER 7 OF 26 HCAPLUS COPYRIGHT 2009 ACS on STN
ACCESSION NUMBER: 2007:851570 HCAPLUS
DOCUMENT NUMBER: 147:305888
TITLE: Production of soldering flux nanoparticles for brazing of aluminum alloy
INVENTOR(S): Jie, Xiaohua; Liang, Xinghua; Lu, Guohui
PATENT ASSIGNEE(S): Guangdong University of Technology, Peop. Rep. China
SOURCE: Faming Zhuanli Shengqing Gongkai Shuomingshu, 7pp.
CODEN: CNXXEV
DOCUMENT TYPE: Patent
LANGUAGE: Chinese
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
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CN 101007355	A	20070801	CN 2007-10026305 20070115
PRIORITY APPLN. INFO.:			CN 2007-10026305 20070115

AB The comprises reacting AlCl₃ with KF at weight ratio of 9.16 : 17.24 using PEG-4000 as dispersant at 65-75° under electromagnetic stirring for 1 h and supersonic oscillation for 20 min to generate K2ALF₅-H₂O, adjusting pH to 4 with HF, filtering, washing, vacuum drying, and sintering at 250° for 2 h.

L13 ANSWER 8 OF 26 HCAPLUS COPYRIGHT 2009 ACS on STN

ACCESSION NUMBER: 2007:1003436 HCAPLUS
DOCUMENT NUMBER: 149:296880
TITLE: Ge/Si quantum dot formation from non-uniform cluster fluxes
AUTHOR(S): Rider, Amanda E.; Levchenko, Igor; Ostrikov, Kostya; Keidar, Michael
CORPORATE SOURCE: Plasma Nanoscience@Complex Systems, School of Physics, The University of Sydney, NSW, 2006, Australia
SOURCE: Plasma Processes and Polymers (2007), 4(6), 638-647
CODEN: PPPLA6; ISSN: 1612-8850
PUBLISHER: Wiley-VCH Verlag GmbH & Co. KGaA
DOCUMENT TYPE: Journal
LANGUAGE: English

AB The controlled growth of ultra-small Ge/Si quantum dot (QD) nuclei (~1 nm) suitable for the synthesis of uniform nanopatterns with high surface coverage, is simulated using atom-only and size non-uniform cluster fluxes. It is found that seed nuclei of more uniform sizes are formed when clusters of non-uniform size are deposited. This counter-intuitive result is explained via adatom-nanocluster interactions on Si(100) surfaces. Our results are supported by exptl. data on the geometric characteristics of QD patterns synthesized by nanocluster deposition. This is followed by a description of the role of plasmas as non-uniform cluster sources and the impact on surface dynamics. The technique challenges conventional growth modes and is promising for deterministic synthesis of nanodot arrays.

REFERENCE COUNT: 59 THERE ARE 59 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L13 ANSWER 9 OF 26 HCAPLUS COPYRIGHT 2009 ACS on STN

ACCESSION NUMBER: 2007:672244 HCAPLUS
DOCUMENT NUMBER: 148:60599
TITLE: Studies on performances of organic membrane modified by inorganic material
AUTHOR(S): Lu, Yan; Yu, Shui-li; Sun, Xian-da; Cai, Bao-xiang
CORPORATE SOURCE: Department of Municipal and Environmental Engineering, Harbin Institute of Technology, Harbin, 150090, Peop. Rep. China
SOURCE: Huanjing Kexue (2007), 28(2), 371-376
CODEN: HCKHDV; ISSN: 0250-3301
PUBLISHER: Kexue Chubanshe
DOCUMENT TYPE: Journal
LANGUAGE: Chinese

AB Nano-sized alumina particles as inorg. additives were dispersed in the poly(vinylidene fluoride) (PVDF) uniformly to prepare organic-inorg. composite membranes. Contact angle between water and the membrane surface was measured by contact angle measurement in order to characterize the hydrophilicity changing of the membrane surface. The membrane surface structures, pore size distribution on the membrane surface, fracture surface structure and nanometer particles distribution were examined by confocal laser scanning microscopy (CLSM), SEM, and transmission electron microscopy (TEM) resp. Membrane properties were characterized by ultrafiltration (UF) expts. in terms of water flux and antifouling

properties. Membranes mech. performances were measured by omnipotence electronic intensity measuring instrument (W-56). Expts. indicated that Al2O3-PVDF composite membranes exhibited significant differences in surface hydrophilicity properties, flux, and intensity and antifouling performances due to nano-sized particles addition

L13 ANSWER 10 OF 26 HCAPLUS COPYRIGHT 2009 ACS on STN

ACCESSION NUMBER: 2007:503883 HCAPLUS
DOCUMENT NUMBER: 147:12241
TITLE: Novel synthetic method for crystalline nanoparticles from liquid drops
AUTHOR(S): Okuyama, Kikuo; Wang, Wei-Ning; Iskandar, Ferry
CORPORATE SOURCE: Grad. Sch. Eng., Hiroshima University, Japan
SOURCE: Farumashia (2007), 43(4), 315-319
CODEN: FARUAW; ISSN: 0014-8601
PUBLISHER: Pharmaceutical Society of Japan
DOCUMENT TYPE: Journal; General Review
LANGUAGE: Japanese

AB A review on preparation of nanocrystals (e.g., polymers, metals, oxides, and other materials) from liquid drops, employing electrospray pyrolysis (ESP), low pressure spray pyrolysis (LPSP), salt assisted spray pyrolysis (SASP), and polymer assisted spray pyrolysis (PASP).

L13 ANSWER 11 OF 26 HCAPLUS COPYRIGHT 2009 ACS on STN DUPLICATE 2

ACCESSION NUMBER: 2006:913314 HCAPLUS
DOCUMENT NUMBER: 145:297104
TITLE: High energy soldering composition with metal nanoparticles
INVENTOR(S): Skipor, Andrew F.; Jonnalagadda, Krishna D.; Scheifers, Steven M.
PATENT ASSIGNEE(S): USA
SOURCE: U.S. Pat. Appl. Publ., 8pp.
CODEN: USXXCO
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 20060196579	A1	20060907	US 2005-73919	20050307
WO 2006096281	A2	20060914	WO 2006-US4694	20060210
W:	AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KM, KN, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, LY, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NG, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SM, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW			
RW:	AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, LV, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG, BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM			

KR 2007108540 A 20071112 KR 2007-720543 20070907

PRIORITY APPLN. INFO.: US 2005-73919 A 20050307
WO 2006-US4694 W 20060210

AB A low temperature, high energy soldering composition for joining metals together

contains a fluxing agent and high energy metal nanoparticles that possess sufficiently high internal energy, suspended in the fluxing agent, such that the m.p. of the high energy metal particles is depressed by at least

three° below the normal bulk melting temperature of metal. A solder joint is effected by placing the high energy metal particles in contact with one or more of the metal surfaces and heating the high energy metal particles in the presence of a fluxing agent to melt the high energy metal nanoparticles and fuse them to the metal surface. High energy metal particles suspended in the matrix, comprising one or more metals selected from aluminum, antimony, beryllium, boron, bismuth, cadmium, chromium, cobalt, copper, gold, indium, iron, lead, lithium, magnesium, manganese, nickel, phosphorus, platinum, silver tin, titanium, and zinc.

L13 ANSWER 12 OF 26 HCAPLUS COPYRIGHT 2009 ACS on STN DUPLICATE 3

ACCESSION NUMBER: 2006:890210 HCAPLUS

DOCUMENT NUMBER: 145:282962

TITLE: Method of forming polymer-reinforced solder-bumped containing device or substrate

INVENTOR(S): Esler, David Richard; Buckley, Donald Joseph; Tonapi, Sandeep Shrikant; Campbell, John Robert; Mills, Ryan Christopher; Prabhakumar, Ananth; Gowda, Arun Virupaksha

PATENT ASSIGNEE(S): General Electric Company, USA

SOURCE: U.S. Pat. Appl. Publ., 15pp.

CODEN: USXXCO

DOCUMENT TYPE: Patent

LANGUAGE: English

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 20060192280	A1	20060831	US 2005-68376	20050228
PRIORITY APPLN. INFO.:			US 2005-68376	20050228

AB A simple and cost-efficient method of forming polymer reinforced solder-bumped containing device or substrate is described. The method comprises the following steps: providing a device or substrate having at least one solder bump formed thereon; coating a predetd. portion of the device or substrate with a curable polymer reinforcement material forming a layer on the device or substrate, partially curing the curable polymer reinforcement material to provide a solder-bumped structure comprising a partially cured polymer reinforcement material, and, making a connection between the solder-bumped structure formed and a printed circuit board or array of attachment pads and fully curing the partially cured polymer reinforcement material to provide a reinforced interconnection. Full curing of the polymer reinforcement material may take place either during the reflow step or subsequent to it (post-curing).

L13 ANSWER 13 OF 26 USPATFULL on STN

ACCESSION NUMBER: 2006:192074 USPATFULL

TITLE: Fluxing agent for soldering metal components

INVENTOR(S): Boger, Snjezana, Esslingen, GERMANY, FEDERAL REPUBLIC OF

Englert, Peter, Bad Friedrichshall, GERMANY, FEDERAL REPUBLIC OF

Pfitzer, Matthias, Aalen, GERMANY, FEDERAL REPUBLIC OF
Sedmeir, Sabine, Mosbach, GERMANY, FEDERAL REPUBLIC OF
Trautwein, Ingo, Bietgheim-Bissingen, GERMANY, FEDERAL REPUBLIC OF

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 20060162817	A1	20060727
APPLICATION INFO.:	US 2004-562154	A1	20040625 (10)
	WO 2004-EP6894		20040625

	NUMBER	DATE
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PRIORITY INFORMATION:	DE 2003-10328745	20030625
DOCUMENT TYPE:	Utility	
FILE SEGMENT:	APPLICATION	
LEGAL REPRESENTATIVE:	FOLEY AND LARDNER LLP, SUITE 500, 3000 K STREET NW, WASHINGTON, DC, 20007, US	
NUMBER OF CLAIMS:	14	
EXEMPLARY CLAIM:	1	
LINE COUNT:	349	
CAS INDEXING IS AVAILABLE FOR THIS PATENT.		

AB The aim of the invention is to provide a fluxing agent for soldering components, which creates one or more specific surface characteristics during the soldering process itself, thus obviating the need for the surface treatment process that is conventionally carried out after the soldering process. To achieve this, nanoparticles are added to a base substance.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L13 ANSWER 14 OF 26 HCAPLUS COPYRIGHT 2009 ACS on STN

ACCESSION NUMBER: 2007:587045 HCAPLUS
DOCUMENT NUMBER: 147:222139
TITLE: Effect of H3BO3 on the preparation, crystal-structure and luminescence properties of the BaMgAl10017:Eu2+ fluorescence powder with nanometer size
AUTHOR(S): Xie, Hong; Chen, Zhe; Yan, Youwei; Yuan, Jiangshun
CORPORATE SOURCE: State Key Laboratory of Die and Mould Technology, Huazhong University of Science and Technology, Wuhan, 430074, Peop. Rep. China
SOURCE: Gongneng Cailliao (2006), 37(9), 1372-1374
CODEN: GOCAEA; ISSN: 1001-9731
PUBLISHER: Gongneng Cailliao Bianjibu
DOCUMENT TYPE: Journal
LANGUAGE: Chinese

AB The Eu2+ activated blue emitting BaMgAl10017:Eu2+ fluorescence powder for PDP application was prepared by solution combustion method. The effect of H3BO3 as flux on the crystal-structure and luminescence properties of the BaMgAl10017:Eu2+ (BAM) fluorescence powder was mainly investigated. The results show that the flux can help to crystallize the fluorescence powder, and enhances the intensities of excitation and emission spectra of BAM. The optimum content of H3BO3 is about 1.0%, which increased the relative emission intensity of the fluorescence powder over 30%.

L13 ANSWER 15 OF 26 HCAPLUS COPYRIGHT 2009 ACS on STN

ACCESSION NUMBER: 2007:203523 HCAPLUS
DOCUMENT NUMBER: 147:523243
TITLE: Preparation of polyethersulfone ultrafiltration membranes containing ZrO2 nanoparticles by combining phase-inversion method/sol-gel technique
AUTHOR(S): Lee, Yun Jae; Youm, Kyung Ho
CORPORATE SOURCE: School of Chemical Engineering, College of Engineering, Chungbuk National University, Chungbuk, 361-763, S. Korea
SOURCE: Memburein (2006), 16(4), 303-312
CODEN: MEMBEP; ISSN: 1226-0088
PUBLISHER: Membrane Society of Korea
DOCUMENT TYPE: Journal
LANGUAGE: Korean

AB The asym. hybrid membranes of polyethersulfone (PES) and ZrO2

nanoparticles were prepared via new one-step procedure combining simultaneously the phase-inversion method and the sol-gel technique. The optimum contents of $\text{Zr}(\text{PrO})_4$ and HNO_3 catalyst were determined by the adsorption expts. of phosphate anion onto the resulting hybrid membranes. The maximum adsorption of phosphate anion is obtained at the conditions of 0.15 mL $\text{Zr}(\text{PrO})_4$ addition per 1 mL PES and 30 mL HNO_3 addition per 1 mL $\text{Zr}(\text{PrO})_4$. Variation of morphol., performance and incorporated ZrO_2 amount of the resulting hybrid membranes were discussed and determined using SEM, pure water flux, TGA, ICP, XRD and contact angle measurements. Increasing $\text{Zr}(\text{PrO})_4$ addition into casting solution, pure water flux is increased and ZrO_2 amount in the hybrid membrane is maximized at the conditions 0.15 mL $\text{Zr}(\text{PrO})_4$ addition per 1 mL PES. The prephosphatation of PES- ZrO_2 hybrid membrane was studied to modify the surface characteristics of membrane. Ultrafiltration of bovine serum albumin (BSA) solution was performed in a dead-end cell using both a bare (non-phosphated) and a phosphated hybrid membrane. It is revealed that both the permeate flux and BSA rejection were increased as about 40% by prephosphatation of hybrid membrane. These results may be explained on the basis of the increase of membrane hydrophilicity, which was determined from contact angle measurements.

L13 ANSWER 16 OF 26 HCAPLUS COPYRIGHT 2009 ACS on STN

ACCESSION NUMBER: 2006:1001367 HCAPLUS

DOCUMENT NUMBER: 146:8912

TITLE: Preparation of polysulfone- Fe_3O_4 composite ultrafiltration membrane and its behavior in magnetic field

AUTHOR(S): Jian, P.; Yahui, H.; Yang, W.; Linlin, L.

CORPORATE SOURCE: Engineering Research Center of Bio-Process, Ministry of Education, Hefei University of Technology, Hefei, Anhui, 230009, Peop. Rep. China

SOURCE: Journal of Membrane Science (2006), 284(1+2), 9-16
CODEN: JMESDO; ISSN: 0376-7388

PUBLISHER: Elsevier B.V.

DOCUMENT TYPE: Journal

LANGUAGE: English

AB The polysulfone (PSF)- Fe_3O_4 composite ultrafiltration membrane was made by phase-inversion process and its structure of surface and cross-section was examined by SEM. Especially its ultrafiltration performance in magnetic field

was studied by determining the variation of rejection to lysozyme. As a result, the

addition of nano-sized Fe_3O_4 particles had an important influence on membrane performance in magnetic field. The rejection to lysozyme declined obviously in magnetic field, however, when the magnetic field was moved away, the rejection made a comeback quickly. While the rejection of the PSF membrane remained invariable in magnetic field. Furthermore, with the increase of the magnetic intensity, the rejection declined more obviously. Hence, the result indicated that it was possible to sep. different substances with a composite membrane in turn by altering the magnetic intensity.

REFERENCE COUNT: 23 THERE ARE 23 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L13 ANSWER 17 OF 26 HCAPLUS COPYRIGHT 2009 ACS on STN

ACCESSION NUMBER: 2006:130390 HCAPLUS

DOCUMENT NUMBER: 144:216901

TITLE: Preparation method of cored wire containing nanometer materials for electric arc spraying

INVENTOR(S): Liu, Shaoquan; Wen, Li; Zhang, Shengcai; Li, Zhizhang

PATENT ASSIGNEE(S): Zhejiang University, Peop. Rep. China

SOURCE: Faming Zhuanli Shengqing Gongkai Shuomingshu, 6 pp.

CODEN: CNXXEV

DOCUMENT TYPE: Patent
 LANGUAGE: Chinese
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
CN 1562555	A	20050112	CN 2004-10017882	20040418
CN 1257791	C	20060531		

PRIORITY APPLN. INFO.: CN 2004-10017882 20040418

AB This invention discloses a preparation method of cored wire containing nanometer

materials for elec. arc spraying. The cored wire is prepared from cored flux and outer layer by wrapping the cored flux and drawing, wherein the cored flux is a composite powder containing nanometer materials, and the outer layer can be prepared from carbon steel band, chrome steel band, stainless band, nickel strap, or Al band. The cored wire prepared by this invention can be used in spraying to obtain a coating with high bonding strength and improved abrasion resistance, corrosion resistance, and oxidation resistance. The title cored wire can be widely used in worn part restoration and part surface processing for boiler tubes, chemical processing equipment, machine parts, and dies.

L13 ANSWER 18 OF 26 HCAPLUS COPYRIGHT 2009 ACS on STN

ACCESSION NUMBER: 2005:317144 HCAPLUS
 DOCUMENT NUMBER: 142:491761
 TITLE: Effect of ambipolar fluxes on nanoparticle charging in low-pressure glow discharges
 AUTHOR(S): Ostrikov, K.
 CORPORATE SOURCE: School of Physics, The University of Sydney, Sydney, 2006, Australia
 SOURCE: Physical Review E: Statistical, Nonlinear, and Soft Matter Physics (2005), 71(2-2), 026405/1-026405/9
 CODEN: PRESCM; ISSN: 1539-3755
 PUBLISHER: American Physical Society
 DOCUMENT TYPE: Journal
 LANGUAGE: English

AB The effect of ambipolar fluxes on nanoparticle charging in a typical low-pressure parallel-plate glow discharge is considered. It is shown that the equilibrium values of the nanoparticle charge in the plasma bulk and near-electrode areas are strongly affected by the ratio $I_{\text{ath}}/I_{\text{ion}}$ of the ambipolar flux and the ion thermal velocities. Under typical exptl. conditions the above ratio is neither $I_{\text{ath}} \ll I_{\text{ion}}$ nor $I_{\text{ath}} \gg I_{\text{ion}}$, which often renders the commonly used approxns. of the purely thermal or "ion wind" ion charging currents inaccurate. By using the general approximation for the ambipolar drift-affected ion flux on the nanoparticle surface, it appears possible to obtain more accurate values of the nanoparticle charge that usually deviate within 10-25 % from the values obtained without a proper accounting for the ambipolar ion fluxes. The implications of the results obtained for glow discharge modeling and nanoparticle manipulation in low-pressure plasmas are discussed.

REFERENCE COUNT: 35 THERE ARE 35 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L13 ANSWER 19 OF 26 HCAPLUS COPYRIGHT 2009 ACS on STN

ACCESSION NUMBER: 2004:1156544 HCAPLUS
 DOCUMENT NUMBER: 142:78476
 TITLE: Soldering flux for soldering of metal components
 INVENTOR(S): Boger, Snjezana; Englert, Peter; Pfitzer, Matthias; Sedlmeir, Sabine; Trautwein, Ingo
 PATENT ASSIGNEE(S): Behr GmbH & Co. Kg, Germany
 SOURCE: PCT Int. Appl., 15 pp.

DOCUMENT TYPE: CODEN: PIXXD2
 LANGUAGE: Patent
 FAMILY ACC. NUM. COUNT: German
 PATENT INFORMATION: 1

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2004113014	A2	20041229	WO 2004-EP6894	20040625
WO 2004113014	A3	20050602		
W:	AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW			
RW:	BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG			
DE 102004031034	A1	20050210	DE 2004-102004031034	20040625
EP 1658157	A2	20060524	EP 2004-740305	20040625
R:	AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, FI, RO, CY, TR, BG, CZ, EE, HU, PL, SK			
CN 1809440	A	20060726	CN 2004-80017539	20040625
US 20060162817	A1	20060727	US 2005-562154	20051223
PRIORITY APPLN. INFO.:			DE 2003-10328745	A 20030625
			WO 2004-EP6894	W 20040625

AB A flux is provided for soldering/brazing of metal components. which creates one or more sp. surface characteristics during the soldering process itself, thus obviating the need for the surface treatment process that is conventionally carried out after the soldering process. Nanoparticles 0.01-10 volume% (preferably 0.1-1%) are added to the flux to produce such surface characteristics during the soldering/brazing process so that the conventional surface after-treatment can be eliminated. The flux is especially suitable for brazing of Al and Al alloy heat exchangers for automobiles.

REFERENCE COUNT: 5 THERE ARE 5 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L13 ANSWER 20 OF 26 HCAPLUS COPYRIGHT 2009 ACS on STN

ACCESSION NUMBER: 2005:374407 HCAPLUS

DOCUMENT NUMBER: 144:354736

TITLE: Study on the preparation of nano-aluminum flux material in microemulsion

AUTHOR(S): Zhang, Yun-hui; Xiao, Li; Yin, Shu-mei; Li, Zhi-tang; Li, Ning; Xu, Jian-chen; Zhang, Ze-shen

CORPORATE SOURCE: The College of Pharmaceutical Science and Technology, Tianjin University, Tianjin, 300072, Peop. Rep. China

SOURCE: Nami Jishu Yu Jingmi Gongcheng (2004), 2(2), 85-88
 CODEN: NJYJAF; ISSN: 1672-6030

PUBLISHER: Nami Jishu Yu Jingmi Gongcheng Bianjibu

DOCUMENT TYPE: Journal

LANGUAGE: Chinese

AB It is studied to prepare nanoparticle of Al fluxes for brazing Al and its alloy. The operation is convenient and the diameter of the nanoparticle can be controlled. The thermodyn. performance and dynamics performance of the system are both steady. The method is feasible and applied. It is studied to prepare KF-AlF₃ eutectic products at various eutectic conditions. The m.ps. of the products are measured by DTA and the composites of each product are conformed by x-ray diffraction. The ideal fluxes consisted of

is KAlF4-K3AlF6 at a certain temperature The KAlF4-K3AlF6 eutectic nanoparticle prepared by microemulsion method. It is suggested by x-ray diffraction patterns that material of the main phase is KAlF4 and the material of the minor phase is K3AlF6. The m.p. of nano-eutectic is 560° proved by DTA. The material is considered as the perfect Al fluxes for brazing Al and its alloy.

L13 ANSWER 21 OF 26 HCAPLUS COPYRIGHT 2009 ACS on STN
 ACCESSION NUMBER: 2005:1228016 HCAPLUS
 DOCUMENT NUMBER: 144:25749
 TITLE: Method of expansion brazing and manufacture of active binding agent
 INVENTOR(S): He, Peng; Feng, Jicai; Qian, Yiyu; Li, Zhuoran; Han, Jiecai
 PATENT ASSIGNEE(S): Harbin Institute of Technology, Peop. Rep. China
 SOURCE: Faming Zhuanli Shenqing Gongkai Shuomingshu, 6 pp.
 CODEN: CNXXEV
 DOCUMENT TYPE: Patent
 LANGUAGE: Chinese
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
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CN 1413797	A	20030430	CN 2002-133238	20021021
PRIORITY APPLN. INFO.:			CN 2002-133238	20021021
AB	The binding agent contains adhesive agent, noncorrosive flux, and active nanopowder with a rate of (1-20):(1-5):(0-1). The adhesive agent contains water and organic cellulose with a rate of.			

L13 ANSWER 22 OF 26 HCAPLUS COPYRIGHT 2009 ACS on STN
 ACCESSION NUMBER: 2003:377832 HCAPLUS
 DOCUMENT NUMBER: 139:170590
 TITLE: Interfacial ion fluxes at nanostructured thin films
 AUTHOR(S): Kariuki, Nancy N.; Luo, Jin; Han, Li; Maye, Mathew M.; Patterson, Melissa J.; Moussa, Laura; Hepel, Maria; Zhong, Chuan-Jian
 CORPORATE SOURCE: Department of Chemistry, State University of New York at Binghamton, Binghamton, NY, 13902, USA
 SOURCE: Materials Research Society Symposium Proceedings (2003), 752(Membranes--Preparation, Properties and Applications), 181-186
 CODEN: MRSPDH; ISSN: 0272-9172
 PUBLISHER: Materials Research Society
 DOCUMENT TYPE: Journal
 LANGUAGE: English
 AB Thin films derived from nanocrystal cores and functionalized linkers provide large surface-to-volume ratio and 3-dimensional ligand framework. This paper describes the results of a study of the interfacial ion fluxes associated with redox reactivity and structural properties of such films using cyclic voltammetry, electrochem. quartz-crystal nanobalance, surface IR reflection spectroscopy, and XPS. Films from Au nanocrystals of 2 nm core sizes and 11-mercaptoundecanoic acid were studied as a model system. First, the film coated on electrode surface displays redox-like voltammetric waves characteristic of the deprotonation-reprotonation of the carboxylic acid groups in the nanostructured network. This process is accompanied by mass changes. Secondly, the film exhibits capability for the complexation of Cu ions via the nanostructured carboxylate framework. This process is also accompanied by interfacial fluxes of electrolyte cations across the electrode film electrolyte interface which compensate electrostatically the fixed neg. charges in the reduction process.

REFERENCE COUNT: 17 THERE ARE 17 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L13 ANSWER 23 OF 26 HCAPLUS COPYRIGHT 2009 ACS on STN

ACCESSION NUMBER: 2004:130595 HCAPLUS

DOCUMENT NUMBER: 141:266412

TITLE: Rejection properties of silica nanoparticles from ultrafiltration membranes

AUTHOR(S): Takaba, Hiromitsu; Ito, Yoshiaki; Nakao, Shin-ichi

CORPORATE SOURCE: Development of Chemical System Engineering, The

University of Tokyo, Tokyo, 113-8656, Japan

SOURCE: Korean Membrane Journal (2003), 5(1), 54-60

CODEN: KMEJFA; ISSN: 1229-6791

PUBLISHER: Membrane Society of Korea

DOCUMENT TYPE: Journal

LANGUAGE: English

AB The rejection properties and flux rates of silica nanoparticles in ultrafiltration membranes has been investigated. Cross-flow permeation expts. were conducted using polycarbonate track-etch flat membranes with pore sizes of 30 and 50 nm, and a silica nanoparticle solute with particle sizes of 5 and 18 nm with narrow size distributions. The fluxes and rejection factors were investigated at various particle concns., cross-flow velocities, pH, and ionic strengths of solution. Even though the size of the silica nanoparticles was much smaller than that of the membrane pores, the observed rejection rates were very high compared with those for a similar-sized polymer (dextran). The observed rejection rate decreased with increasing ionic strength, which implies that the transport mechanism of the silica nanoparticles is significantly influenced by electrostatic repulsion between particles and membranes.

REFERENCE COUNT: 11 THERE ARE 11 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L13 ANSWER 24 OF 26 HCAPLUS COPYRIGHT 2009 ACS on STN

ACCESSION NUMBER: 2002:181456 HCAPLUS

DOCUMENT NUMBER: 137:9315

TITLE: The influence of copper nanopowders on microstructure and hardness of lead-tin solder

AUTHOR(S): Lin, D.; Wang, G. X.; Srivatsan, T. S.; Al-Hajri, Meslet; Petraroli, M.

CORPORATE SOURCE: Department of Mechanical Engineering, The University of Akron, Akron, OH, 44325-3903, USA

SOURCE: Materials Letters (2002), 53(4-5), 333-338

CODEN: MLETDJ; ISSN: 0167-577X

PUBLISHER: Elsevier Science B.V.

DOCUMENT TYPE: Journal

LANGUAGE: English

AB This paper presents the microstructure and hardness of composite solders obtained by the addition of nanopowders of copper to a conventional solder. Copper powders-reinforced Pb-Sn composite solders were prepared by thoroughly blending nano-sized copper powders (average powder particle size 100 nm) with a powder of a eutectic solder and using a water-soluble flux. The blended solder paste was melted and allowed to re-solidify in a crucible placed on a hot plate and maintained at a constant temperature

Optical microscopy observations revealed the as-solidified microstructure of the composite solder to be altered by the addition of nanopowders to the eutectic Sn-Pb solder. The copper powders precipitated as intermetallic compds. that

were non-uniformly distributed through the microstructure. Microhardness measurements revealed a 30-40% increase in hardness of the composite solder over the conventional unreinforced eutectic counterpart.

REFERENCE COUNT: 11 THERE ARE 11 CITED REFERENCES AVAILABLE FOR THIS

RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L13 ANSWER 25 OF 26 HCAPLUS COPYRIGHT 2009 ACS on STN

ACCESSION NUMBER: 2002:602896 HCAPLUS

DOCUMENT NUMBER: 137:285600

TITLE: Characterizations of nanostructured films as responsive electrode materials

AUTHOR(S): Kariuki, Nancy; Luo, Jin; Moussa, Laura; Israel, Lisa B.; Zhong, Chuan-Jian; Hepel, Maria

CORPORATE SOURCE: Department of Chemistry, State University of New York at Binghamton, Binghamton, NY, 13902, USA

SOURCE: Materials Research Society Symposium Proceedings (2002), 704(Nanoparticulate Materials), 281-286
CODEN: MRSPDH; ISSN: 0272-9172

PUBLISHER: Materials Research Society

DOCUMENT TYPE: Journal

LANGUAGE: English

AB Nanostructured thin films were assembled as metal-responsive electrode materials from monolayer-capped gold nanoparticles (2 nm) and carboxylic acid functionalized alkyl thiol linkers via an exchange-crosslinking-precipitation reaction pathway. The network assemblies have open frameworks in which void space forms channels or chambers with the nanometer sized cores defining its size and the shell structures defining its chemical specificity. Such nanostructures were investigated as responsive materials for the detection of metal ion fluxes. Cyclic voltammetry, in-situ electrochem. quartz-crystal nanobalance, and surface IR reflection spectroscopy techniques were used to characterize the interfacial redox reactivity and mass fluxes at the nanostructured electrode materials. The system showed remarkable reversible mass loading arising from incorporation of ionic species into the film. The diagnostic stretching bands of the carboxylic and carboxylate groups at the shell allowed the identification and assessment of the interfacial carboxylate-metal ion reactivity.

REFERENCE COUNT: 16 THERE ARE 16 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L13 ANSWER 26 OF 26 HCAPLUS COPYRIGHT 2009 ACS on STN

ACCESSION NUMBER: 1997:558463 HCAPLUS

DOCUMENT NUMBER: 127:222386

ORIGINAL REFERENCE NO.: 127:43313a, 43316a

TITLE: Separation of submicron particles from gas fluxes in packed beds

AUTHOR(S): Heidenreich, Steffen; Buttner, Helmut; Ebert, Fritz
CORPORATE SOURCE: Universitat Kaiserslautern, Kaiserslautern, D-67653, Germany

SOURCE: Chemie-Ingenieur-Technik (1997), 69(8), 1113-1117
CODEN: CITEAH; ISSN: 0009-286X

PUBLISHER: Wiley-VCH

DOCUMENT TYPE: Journal

LANGUAGE: German

AB A process for the separation of submicron particles from process or waste gases based on the enlargement of the particles by heterogeneous condensation and their deposition in an irrigated packed bed is presented. The temperature difference between the water and the dust-laden air plays a key role in separation efficiency. The efficiency was enhanced by repeated supersatn. of the air by serial mounting of several fixed beds irrigated with water of various temperature Besides the separation of particulate components the process allows the simultaneous absorption of gaseous pollutants.

COST IN U.S. DOLLARS	SINCE FILE	TOTAL
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NETWORK CHARGES	0.84	0.91
DISPLAY CHARGES	270.22	270.22
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FULL ESTIMATED COST	296.75	296.97

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LOGOFF? (Y)/N/HOLD:y

COST IN U.S. DOLLARS	SINCE FILE	TOTAL
	ENTRY	SESSION
FULL ESTIMATED COST	296.75	296.97
DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)	SINCE FILE	TOTAL
	ENTRY	SESSION
CA SUBSCRIBER PRICE	-59.04	-59.04

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